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4,558,302 5,339,176 5,561,691 5,764,374 5,998,067 6,159,659 6,366,339
4,743,091 5,343,059 5,568,395 5,764,381 6,003,442 6,164,637 6,371,026
4,992,864 5,355,446 5,576,734 5,771,794 6,014,471 6,180,325 6,377,739
5,049,901 5,359,451 5,579,115 5,785,309 6,016,752 6,181,362 6,387,597
5,079,721 5,359,458 5,592,309 5,813,346 6,031,932 6,181,439 6,396,422
5,103,407 5,367,360 5,594,536 5,818,498 6,043,865 6,186,068 6,396,618
5,111,308 5,384,648 5,600,448 5,854,883 6,060,208 6,189,452 6,407,849
5,113,249 5,384,899 5,608,822 5,861,904 6,063,528 6,191,882 6,414,735
5,122,871 5,412,491 5,615,282 5,861,992 6,063,546 6,204,874 6,422,801
5,124,547 5,412,737 5,625,766 5,875,288 6,072,518 6,208,369 6,435,091
5,132,723 5,420,702 5,636,330 5,894,342 6,090,529 6,214,276 6,441,914
5,150,225 5,420,722 5,649,220 5,900,981 6,096,461 6,217,965 6,450,092
5,153,769 5,459,505 5,650,076 5,934,196 6,098,544 6,260,482 6,456,396
5,155,782 5,473,733 5,652,804 5,942,137 6,107,011 6,266,080 6,476,931
5,157,516 5,481,379 5,680,129 5,946,426 6,112,663 6,266,134 6,477,955
5,208,818 5,488,906 5,691,823 5,947,028 6,115,056 6,267,054 6,509,903
5,208,888 5,497,252 5,691,828 5,958,647 6,121,996 6,268,948 6,541,181
5,247,174 5,508,828 5,696,393 5,966,504 6,130,702 6,283,589 6,545,772
5,249,067 5,509,561 5,699,174 5,969,872 6,134,393 6,295,076 6,564,018
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5,291,273 5,519,852 5,708,736 5,986,819 6,137,580 6,318,266
5,323,248 5,526,143 5,713,287 5,995,475 6,147,789 6,352,816

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Connecting Cables to Ports and Jacks

**CAUTION:** To reduce the hazard of electric shock and fire, never connect telephone or telecommunication lines to any of the ports or jacks on the Leaf Valeo digital camera back.

Connect cables to the ports and jacks on the Leaf Valeo digital camera back, according to the following list:

- Camera Control cable to the Camera Control (Remote) jack
- FireWire cable to the FireWire port on the Leaf Valeo digital camera back or the Leaf Digital Magazine
- DP-67 cable to the AUX port of the Leaf Valeo digital camera back
- Flash Sync cable to the Flash Sync jack
- Camera-to-Back Sync cable to the Camera-to-Back Sync jack

![Diagram of Leaf Valeo digital camera back with ports and jacks labeled]

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Caring for the Leaf Valeo Digital Camera Back

**WARNING:** Never open or disassemble any of the Leaf digital camera back parts, in particular the protective infrared (IR) filter glass.

Note: For information about cleaning the protective IR filter glass, see *Protective IR Filter Glass* in this document.

Battery Label Caution Statement

The battery label caution statement is located on each battery.

**CAUTION:** Battery can explode, leak, or catch on fire if exposed to high temperatures or fire, if opened, or if disassembled.

Charger Label Warning Statement

The charger label warning statement is located on the battery charger.

**WARNING:** Battery may explode if disposed in fire. Use specified power supply and battery only. To prevent injury or burns, do not allow metal objects to contact the charger terminals. There are no user-serviceable parts. Do not disassemble.
Mesures de sécurité

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Connexion des cables aux ports et prises femelles

**ATTENTION:** pour réduire le danger de chocs électriques et d’incendie, ne connectez jamais de lignes de communication ou de téléphone à n’importe quel port ou prise femelle de l’appareil photo numérique Leaf Valeo.

La connexion des câbles aux ports et prises femelles de l’appareil photo numérique Leaf Valeo s’effectue selon la liste suivante :

- Câble de commande de l’appareil photo à la prise femelle (déporté) ;
- Câble FireWire au port FireWire sur le périphérique arrière de l’appareil photo numérique ou sur le Leaf Digital Magazine ;
- Câble DP-67 au port AUX du périphérique arrière de l’appareil photo numérique Leaf Valeo ;
- Câble Flash Sync à la prise femelle Flash Sync ;
- Câble Camera-to-Back Sync à la prise femelle Camera-to-Back Sync.

![Diagram of connections](image)

[1] Prise femelle Camera-to-Back Sync  
[2] Prise femelle Flash Sync  
[3] Port AUX  
[4] Port FireWire de l’appareil photo  
[5] Prise femelle de commande
Entretien de l’appareil photo numérique Leaf Valeo

**AVERTISSEMENT:** ne jamais ouvrir ni démonter n’importe quelle partie du périphérique arrière de l’appareil photo numérique Leaf, en particulier le verre protecteur du filtre infrarouge. (IR)

Verre protecteur du filtre infrarouge, sur la face inférieure du périphérique arrière de l’appareil photo numérique Leaf Valeo

**Remarque:** pour de plus amples informations relatives au nettoyage du verre protecteur du filtre infrarouge, référez-vous au chapitre Protective IR Filter Glass, dans ce document.

**Etiquette d’avertissement sur la batterie**

**ATTENTION**

L’étiquette d’avertissement est présente sur chaque batterie.

Les batteries peuvent exploser, fuir ou prendre feu si elles sont exposées à des températures élevées ou à des flammes, si elles sont ouvertes ou si elles sont démontées.

**Etiquette d’avertissement sur le chargeur**

**AVERTISSEMENT**

L’étiquette d’avertissement pour le chargeur se trouve sur le chargeur de batterie.

L’appareil peut exploser s’il est détruit par combustion. N’utiliser que l’alimentation et les piles indiquées. Pour éviter tout risque de blessure ou de brûlure, ne placer aucun object métallique en contact avec les broches du chargeur. Les pièces ne sont pas remplaçables par l’utilisateur. Ne pas démonter.
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Kabel mit Anschlüssen und Buchsen verbinden

**VORSICHT:** Um die Gefahr eines elektrischen Schlags und die Gefahr von Feuer zu verringern, verbinden Sie niemals Telefon- oder Fernmelde-Leitungen mit einem Anschluss oder mit einer Buchse auf dem Leaf Valeo-Digitalkamera-Rückteil.

Verbinden Sie Kabel mit den Anschlüssen und Buchsen auf dem Leaf Valeo-Digitalkamera-Rückteil gemäß der folgenden Liste:

- Camera Control-Kabel zur (entfernten) Camera Control-Buchse
- DP-67-Kabel zum AUX-Anschluss des Leaf Valeo-Digitalkamera-Rückteils
- Flash Sync-Kabel zur Flash Sync-Buchse
- Camera-to Back Sync-Kabel zur Camera-to-Back Sync-Buchse

Pflege für den Leaf Valeo-Digitalkamera-Rückteil

**WARNUNG:** Öffnen oder zerlegen Sie niemals die Leaf Valeo-Digitalkamera-Rückteile, besonders das schützende infrarote (IR) Filterglas.

Schützendes IR-Filterglas auf der Unterseite des Leaf Valeo-Digitalkamera-Rückteils

**Hinweis:** Informationen über Reinigung des schützenden IR-Filterglases finden Sie in *Protective IR Filter Glass* in diesem Dokument.

**Batterieschild-Vorsichterklärung**

Die Batterieschild-Vorsichterklärung befindet sich auf jeder Batterie.

**VORSICHT**

Die Batterie kann explodieren, auslaufen oder Feuer fangen, wenn sie hohen Temperaturen oder Feuer ausgesetzt, geöffnet oder zerlegt wird.

**Ladegerätschild-Warnungserklärung**

Die Ladegerätschild-Warnungserklärung befindet sich auf dem Batterieladegerät.

**WARNUNG**

Medidas preventivas de seguridad

Conexión de cables a puertos y enchufes hembra ......................... xx
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Conexión de cables a puertos y enchufes hembra

**CUIDADO:** Para reducir el peligro de electrochoque y fuego, no se debe conectar líneas de teléfonos o de telecomunicaciones a ninguno de los puertos o enchufes hembra del respaldo para cámaras digitales Leaf Valeo.

Conecte cables a los puertos y enchufes hembra del respaldo para cámaras digitales Leaf Valeo, de acuerdo a la lista a continuación:

- Cable de control de la cámara (Camera Control) al enchufe hembra de control de la cámara (Camera Control) (Remoto)
- Cable FireWire al puerto FireWire en el respaldo para cámaras digitales Leaf Valeo o en el Leaf Digital Magazine
- Cable DP-67 al puerto AUX en el respaldo para cámaras digitales Leaf Valeo
- Cable de sincronización del flash (Flash Sync) al enchufe hembra Flash Sync
- Cable de sincronización de la cámara al respaldo para cámaras digitales (Camera-to Back Sync) al enchufe hembra Camera-to-Back Sync

![Diagram of connection points]

[1] Enchufe hembra Camera-to-Back Sync
[2] Enchufe hembra Flash Sync
[3] Puerto AUX
[4] Puerto FireWire
[5] Enchufe hembra Camera Control
Cuidado del respaldo para cámaras digitales Leaf Valeo

**ADVERTENCIA:** No se debe abrir o desmontar nunca ninguna de las partes del respaldo para cámaras digitales de Leaf, especialmente el vidrio del filtro protector contra infrarrojo (IR).

**Nota:** Para información acerca del procedimiento para limpiar el vidrio del filtro protector contra IR, vea *Protective IR Filter Glass* en este documento.

Etiqueta con instrucción de cuidado de la batería

**PRECAUCIÓN**  
La batería podría explotar o arder y su contenido podría derramarse si se expusiera a una temperatura elevada o a fuego, así como si se abriera o se desmontara.

Etiqueta de advertencia del cargador

**ADVERTENCIA**  
Podría explotar si se arrojara al fuego. Utilice sólo el sistema de alimentación y la batería especificada. Para evitar heridas o quemaduras, impida que entren en contacto objetos metálicos con los terminales del cargador. No contiene piezas que deba reemplazar el usuario.
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Connettere cavi a porte e prese jack

**AVVERTENZA:** Per ridurre il rischio di shock elettrici e incendio, non connettere mai telefono o linee telecommunicazioni ad alcuna delle porte o prese jack del camera back Leaf Valeo digitale.

Connettete cavi alle porte e prese jack del camera back Leaf Valeo digitale, in base alla lista seguente:

- Cavo Camera Control alla presa jack Camera Control (Remote)
- Cavo FireWire alla porta FireWire sul camera back Leaf Valeo digitale o al Leaf Digital Magazine
- Cavo DP-67 alla porta AUX del camera back Leaf Valeo digitale
- Cavo Flash Sync alla presa jack Flash Sync
- Cavo Camera-to Back Sync alla presa jack Camera-to-Back Sync

![Diagram of camera back]

1. Presa jack Camera-to-Back Sync
2. Presa jack Flash Sync
3. Porta AUX
4. Porta FireWire
5. Presa jack Camera Control

[Diagram Image]
Cura del camera back Leaf Valeo digitale

**AVVERTENZA:** Non aprire mai né smontare alcuna parte del camera back Leaf Valeo digitale, in particolare il vetro di protezione del filtro infrarossi (IR).

**Nota:** Per informazioni sulla pulizia del vetro di protezione del filtro infrarossi IR, vedere *Protective IR Filter Glass* in questo documento.

**Etichetta di precauzione sulla batteria**

L'etichetta di precauzione è posizionata su ogni batteria.

**ATTENZIONE**

La batteria potrebbe esplodere, presentare delle perdite o incendiarsi nel caso venga esposta ad alte temperature o a fiamme, aperta o disassemblata.

**Etichetta di precauzione sul caricabatteria**

L'etichetta di precauzione è posizionata su ogni caricabatteria.

**ATTENZIONE**

Non esporre alle fiamme, pericolo di esplosione. Utilizzare esclusivamente l'alimentatore e la batteria specificati. Per prevenire bruciature o lesioni alle persone, evitare di porre oggetti metallici a contatto dei terminali in tensione. Nessuna parte può essere riparata e/o sostituita dall’utente.
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Conectando cabos à portas e à jacks

**CUIDADO:** Para reduzir o perigo de choque eléctrico e fogo, nunca conecte linhas telefónicas ou de telecomunicações a qualquer porta ou jacks no back da câmera digital Leaf Valeo.

Conecte os cabos às portas no back da câmera digital de acordo com a seguinte lista:

- Cabo de controle da câmera (Camera Control) no jack do controle da câmera (Camera Control) (remoto)
- Cabo FireWire à porta FireWire port no back da câmera digital Leaf Valeo ou no Leaf Digital Magazine
- Cabo DP-67 à porta AUX do back da câmera digital Leaf Valeo
- Cabo Flash Sync ao jack Flash Sync
- Cabo Camera-to Back Sync ao jack Camera-to-Back Sync

![Diagram of camera back with labeled ports](image)
Cuidados ao back da câmera digital Leaf Valeo

AVISO: Nunca abra ou desmonte nenhuma parte do back da câmera digital, principalmente o vidro do filtro protetor contra infravermelho (IV).

Vidro de filtro protetor contra infravermelho na parte inferior do back da câmera digital Leaf Valeo.

Nota: Para informações sobre como limpar o vidro de filtro protetor contra infravermelho, consulte Protective IR Filter Glass neste documento.

Etiqueta com instrução de cuidado da bateria

A etiqueta com instrução de cuidado da bateria está localizada em cada bateria.

CUIDADO A bateria poderá explodir, vazar ou pegar fogo se for exposta a altas temperaturas ou ao fogo, ou se for aberta ou desmontada.

Etiqueta de advertência do carregador

A etiqueta de advertência do carregador está localizada no carregador da bateria.

AVISO Existe a possibilidade de explosão se exposto ao fogo. Use somente cabos de energia e baterias específicas. Para evitar ferimentos ou queimaduras, evite o contato de objetos metálicos com os terminais do carregador. A manutenção das peças não deve ser feita pelo usuário. Não desmontar.
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Kabels en jacks aan uitvoerpoorten aansluiten

**VOORZICHTIG:** om elektrische schokken en vuurgevaar te voorkomen wordt aanbevolen om nooit telefoon of telecommunicatie leidingen aan de poorten of jacks van de Leaf Valeo digitale camera achterwand aan te sluiten.

Kabels worden volgens onderstaande lijst aan de poorten en jacks aan de Leaf Valeo digitale camera achterwand aangesloten:

- De camera control kabel met de (afgelegen) jack van de camera control
- De FireWire kabel met de FireWire poort van de Leaf Valeo digitale camera achterwand of van de Leaf Digital Magazine
- De DP-67 kabel met de AUX poort van de Leaf Valeo digitale camera achterwand
- De Flash Sync kabel met de Flash Sync jack
- De Camera-to Back Sync kabel met de Camera-to-Back Sync jack
De Leaf Valeo digitale camera achterwand veilig gebruiken

**WAARSCHUWING:** open of haal de onderdelen van de Leaf digitale camera achterwand, in het bijzonder het infrarode (IR) beschermglas, nooit uit elkaar.

Het IR beschermglas onderaan de Leaf Valeo digitale camera achterwand

**Opmerking:** zie voor meer informatie om het IR filterglas te reinigen, *Protective IR Filter Glass* in dit document.

**Waarschuwinglabel voor de batterij**

Op iedere batterij is het volgende waarschuwingslabel aangebracht.

**LET OP**

De batterij kan ontploffen, gaan lekken of vuur vatten wanneer deze wordt blootgesteld aan vuur of hoge temperaturen, of wordt geopend of uit elkaar wordt gehaald.

**Waarschuwinglabel voor de batterijlader**

Op de batterijlader is het volgende waarschuwingsetiket aangebracht.

**WAARSCHUWING**

安全措施

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将电缆连接至端口或插口

**警告**：为减少电击和火灾的危险，请勿将电话线或通讯线连接到 Leaf Valeo 数码相机背面的端口或接口。

请按照下表，将电缆连接到 Leaf Valeo 数码相机背面的端口或接口：

- 将数码相控控制线连接到相控控制（遥控）接口
- 将 FireWire 线缆连接到 Leaf Valeo 数码相机背面的 FireWire 端口或者 Leaf 数码盒（Digital Magazine）
- 将 DP-67 线缆连接到 Leaf Valeo 数码相机背面的 AUX 端口
- 将闪光同步（Flash Sync）线缆连接到闪光同步插口
- 将 Camera-to Back 同步线缆连接到 Camera-to-Back 同步插口

[3] AUX 端口
护理 Leaf Valeo 数码相机背面

警告：切勿打开或拆除 Leaf 数码相机背面的任何部件，特别是红外 (IR) 保护滤镜。

数码相机背面底部的保护滤镜

注释：如需获得有关清理红外保护滤镜，请参阅本文档的红外保护滤镜清洁规程（*Protective IR Filter Glass*）。

电池标签警告内容

本电池标签警告内容应位于每个电池上。

警告：电池暴露在高温下或明火中，敞开或拆卸下来会爆炸，漏电或着火。

充电器标签警告内容

本充电器标签警告内容位于每个电池充电器上。

警告：只能使用特殊电源和电池。为了防止造成伤害或燃烧，不允许金属物件接触充电器终端。无用户备用件。不许拆卸。
安全上のご注意

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電池に関する注意事項のラベル表示.......................... xli
充電器に関する警告事項のラベル表示...................... xli
ポートやジャックへのケーブル接続

注意: Leaf Valeo デジタル・カメラ・バックのポートまたはジャックに、電話線や通信回線を接続しないでください。感電や火災の原因になります。

次のリストに従って、Leaf Valeo デジタル・カメラ・バックのポートおよびジャックにケーブルを接続してください。

• Camera ControlケーブルはCamera Control(リモート)ジャックに
• FireWire ケーブルはLeaf Valeo デジタル・カメラ・バックまたはLeaf Digital MagazineのFireWireポートに
• DP-67 ケーブルはLeaf Valeo デジタル・カメラ・バックのAUXポートに
• Flash Sync ケーブルはFlash Sync ジャックに
• Camera-to Back Sync ケーブルはCamera-to-Back Sync ジャックに

[3] AUX. ポート
Leaf Valeo デジタル・カメラ・バックの取り扱い

警告: Leafデジタル・カメラ・バックの部品、特に赤外線（IR）保護フィルター・ガラスは、開けたり、分解したりしないでください。

葉: IR保護フィルター・ガラスの清掃については、このドキュメントの「Protective IR Filter Glass」を参照してください。

電池に関する注意事項のラベル表示

電池に関する注意事項が各電池にラベル表示されています。

注意: 電池は、開けたり、分解したりしないで下さい。また加熱したり火の中に投入したりしないで下さい。爆発、液漏れ、引火などの危険性があります。

充電器に関する警告事項のラベル表示

充電器に関する警告事項が、各充電器にラベル表示されています。

注意: 規格に合った電源や電池以外は使用しないで下さい。充電器の端子を金属などで触らないで下さい。けがや火傷の原因になります。ユーザーが修理すべき部品ではありません。分解しないで下さい。
Техника безопасности

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Подключение кабелей к портам и разъёмам

**ВНИМАНИЕ:** Во избежание удара электрическим током или воспламенения никогда не подключайте телефонные или телекоммуникационные кабели к портам и разъёмам цифровой насадки Leaf Valeo digital camera back.

Подключите кабели к портам и разъёмам цифровой насадки Leaf Valeo digital camera back по следующей схеме:

- Кабель дистанционного управления камерой Camera Control - к разъёму Camera Control (Remote)
- Кабель FireWire - к порту FireWire цифровой насадки Leaf Valeo digital camera back или Leaf Digital Magazine
- Кабель DP-67 - к порту AUX цифровой насадки Leaf Valeo digital camera back
- Кабель синхронизации вспышки Flash Sync - к разъёму Flash Sync
- Кабель синхронизации камеры и насадки Camera-to-Back Sync - к разъёму Camera-to-Back Sync

![Diagram of camera back with labeled ports]

- [1] Разъём Camera-to-Back Sync
- [2] Разъём Flash Sync
- [3] Разъём AUX
- [4] Разъём FireWire
- [5] Разъём Camera Control
Обслуживание цифровой насадки Leaf Valeo Digital Camera Back

**ПРЕДУПРЕЖДЕНИЕ**: Не открывайте и не разбирайте частей цифровой насадки Leaf Valeo digital camera back, в особенностях защитное стекло инфракрасного (ИК) фильтра.

Защитное стекло инфракрасного фильтра с нижней стороны цифровой насадки Leaf Valeo digital camera back

**Примечание**: Процедура очистки защитного стекла инфракрасного фильтра приведена в разделе *Protective IR Filter Glass* настоящего документа.

Предупреждение на наклейке батареи

На каждой батарее имеется наклейка с предупредительной надписью.

**ВНИМАНИЕ!**

В случае воздействия высоких температур или огня, или будучи в открытом или разобранном виде, батарея может взорваться, потечь или взорваться.

Предупреждение на наклейке зарядного устройства

На зарядном устройстве имеется наклейка с предупредительной надписью.

**ВНИМАНИЕ!**

Пользуйтесь только установленным источником тока и батареей. Во избежание повреждения и обгорания выводов зарядного устройства не допускайте их контакта с металлическими предметами. Детали не подлежат обслуживанию. Не разбирайте!
Introduction

About This Document ................................................................. 2
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About This Document

This document includes general instructions for installing a Leaf Valeo digital camera back on your camera. It includes detailed instructions for each camera type. It also describes how to install and use the contents of the Leaf Portable kit.

For software installation procedures, see the Leaf Capture V8 and Leaf DP-67 Portable Application Installation Guide.

Product Overview

A Leaf Valeo digital camera back, attached to your camera in place of a film back, captures color images in a single exposure under any type of lighting. A Leaf Valeo digital camera back can be tethered to a computer or used portably. And with the latest Bluetooth® technology, the Leaf DP-67 (iPAQ) can communicate remotely with the Leaf Valeo digital camera back, offering you even more freedom of movement.

Note: The Leaf Capture V8 application and the Leaf DP-67 Portable application (which are both supplied with your Leaf Valeo digital camera back) enable you to capture, view, and manipulate an image so that you can produce a finished product in a single session.
2

Connecting the FireWire Cable

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Connecting the FireWire Cable

**Important:** The information in this chapter is relevant to all cameras in this installation guide. Follow the specific installation procedures for the camera you are using. It is important that you connect the FireWire cable correctly in order not to cause unnecessary damage.

To avoid connection problems, use only the Leaf FireWire cable and repeater supplied with the Leaf digital camera back.

The FireWire cable (IEEE 1394A) links the computer to the Leaf digital camera back. The cable carries both communication signals and electrical power. The cable is a hot-plug cable that can be connected or disconnected without turning the computer off or quitting the application.

1. Connect one end of the FireWire cable to the port at the bottom of the Leaf digital camera back. Make sure that the side of the FireWire cable connector with the silver line faces the silver line on the FireWire port on the Leaf digital camera back.

2. Connect the other end of the cable to the port on the computer.

**Note:** When connecting the FireWire cable, make sure that the silver line on the FireWire cable is aligned with the silver line above the FireWire port.
Tip: When you connect the FireWire cable after you start the Leaf Capture V8 application, the software automatically connects to the Leaf digital camera back and recognizes the connected camera type.

Attaching the Repeater

Notes:

Attaching the repeater is optional.

If you want to extend the FireWire cable from 4.5m / 15 ft. to 9m / 30 ft., you can purchase the Leaf Repeater and Cable Kit.

1. Connect one of the FireWire cables from the computer to the single-side connection of the repeater.

2. Connect the other FireWire cable from the Leaf digital camera back to one of the ports on the double-side connection of the repeater.

Note: To comply with the CE/FCC standard regulations, it is recommended to use the FireWire cables that are supplied by Leaf.
Mamiya 645 AF-D

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to the Mamiya 645 AF-D camera.

Items Required for the Installation

The following table describes what is included in the Leaf Valeo digital camera back kit for the Mamiya 645 AF-D camera and which items in the kit are required for the installation.

Important: To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back with Mamiya AF-D mount</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Focusing screen</td>
<td>Yes</td>
</tr>
<tr>
<td>Tweezers for focusing screen handling</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (15 cm / 6 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
<tr>
<td>Cleaning supplies (isopropyl alcohol, cleaning wipes, tweezers)</td>
<td>(keep on hand)</td>
</tr>
<tr>
<td>Diffusion filter</td>
<td>No</td>
</tr>
<tr>
<td>Gray card (18%)</td>
<td>No</td>
</tr>
</tbody>
</table>
Quick Installation Reference

1. Install the focusing screen.
2. Remove the protective cover from the Leaf digital camera back and mount the back onto the camera body.
3. Install the Leaf Capture V8 application from the CD.
4. Start the Leaf Capture V8 application.
5. Connect the FireWire cable between the computer and the Leaf digital camera back.

After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

(Note: If you want to work with an external flash or strobe, connect the Flash Sync cable between the camera and the flash or strobe unit.)

(left) Leaf Valeo digital camera back ports and jacks
(right) Leaf Valeo digital camera back on Mamiya 645 AF-D camera

[1] Camera-to-Back Sync jack
[2] Flash Sync jack
[3] AUX. port
[5] Camera Control jack
Installation Procedures

The procedures in this section together constitute the basic installation process.

Installing the Focusing Screen

The focusing screen enables you to view the exact area that the Leaf digital camera back captures. Before you can install the supplied focusing screen, you must remove the camera’s original focusing screen.

To remove the original focusing screen:

1. Remove the lens.
2. Using the supplied tweezers, pull the focusing screen release lever [A] located inside the lens mount (upper center) to release the focusing screen.

![Pulling focusing screen release lever](image)
3. Remove the original focusing screen from the focusing screen frame by grasping the tab on the edge of the screen with the tweezers, and then gently pulling up and out.

Removing original focusing screen

**Important:** Be careful not to touch or damage the mirror.

To attach the supplied focusing screen:

1. Using the supplied tweezers, hold the focusing screen tab and place the focusing screen on the focusing screen frame.

Installing supplied focusing screen
2. Using the tweezers, push the focusing screen frame upwards until you hear a click.

   The focusing screen is now installed.

**Important:**

Never apply pressure on other parts as this might affect focus.

Handle the focusing screen surfaces with care. They are delicate and easily damaged.

Never touch the surface of the focusing screen. If there is dust on the screen, use a blower or soft lens brush to remove it. If the focusing screen needs more thorough cleaning, contact the nearest authorized Mamiya service center. Do not attempt to clean the focusing screen yourself.

**Attaching the Leaf Digital Camera Back to the Camera Body**

1. Mount the Mamiya 645 AF-D camera body on a tripod.

2. Remove the protective cover plate from the Leaf digital camera back.

3. Align the groove on the Leaf digital camera back with the holder bracket on the camera body, and then bring the top of the Leaf digital camera back to the camera body.

4. Push the top of the Leaf digital camera back toward the camera body until it locks into place.

Attaching Leaf Valeo digital camera back to Mamiya 645 camera body
Connecting the Cables

Connecting the Flash Sync Cable

- If you want to use flash or strobe lighting, connect the Flash Sync cable to the Flash Sync jack of the Mamiya 645 AF-D camera.

Connecting the FireWire Cable

For information about connecting the FireWire cable, see Chapter 2, Connecting the FireWire Cable.
Removing the Leaf Digital Camera Back From the Camera Body

1. Place the camera on a steady, flat surface.
2. Turn the camera off.
3. Disconnect the FireWire cable.
4. Slide and press the Release button on the Leaf Valeo digital camera back to the left side.
5. Tilt the camera back away from the camera body to remove it.
Contax 645 AF

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to the Contax 645 AF camera.

Items Required for the Installation

The following table describes what is included in the Leaf Valeo digital camera back kit for the Contax 645 AF camera and which items in the kit are required for the installation.

**Important:** To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back with Contax 645 AF mount</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Focusing screen</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (15 cm / 6 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
<tr>
<td>Cleaning supplies (isopropyl alcohol, cleaning wipes, tweezers)</td>
<td><em>(keep on hand)</em></td>
</tr>
<tr>
<td>Diffusion filter</td>
<td>No</td>
</tr>
<tr>
<td>Gray card (18%)</td>
<td>No</td>
</tr>
</tbody>
</table>
Quick Installation Reference

1. Install the focusing screen.
2. Remove the protective cover from the Leaf digital camera back and mount the back onto the camera body.
3. Install the Leaf Capture V8 application from the CD.
4. Start the Leaf Capture V8 application.
5. Connect the FireWire cable between the computer and the Leaf digital camera back.

After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

**Note:** If you want to work with an external flash or strobe, connect the Flash Sync cable between the camera and the flash or strobe unit.

(left) Leaf Valeo digital camera back ports and jacks
(right) Leaf digital camera back on Contax 645AF camera

[3] AUX. port
Installation Procedures

The procedures in this section together constitute the basic installation process.

Installing the Focusing Screen

The focusing screen enables you to view the exact area that the Leaf digital camera back captures.

Before you can install the supplied focusing screen, you must remove the camera's original focusing screen.

To remove the original focusing screen:
1. Remove the Contax viewfinder.
2. Pick up the screen frame claw with your finger tip, and pull it gently upwards to remove the focusing screen.

To install the supplied focusing screen:
1. Insert the edge of the focusing screen underneath the screen pressing spring.

![Installing focusing screen](image-url)
2. Press the focusing screen down gently, until it locks into place with a click.

**Important:**

Do not press or bend the screen pressing spring directly, it may damage the camera.

Never touch the surface of the focusing screen. If there is dust on the screen, use a blower or soft lens brush to remove it.

Store unused focusing screens in the screen case according to the instructions on the case.

**Attaching the Leaf Digital Camera Back to the Camera Body**

1. Mount the Contax 645 AF camera body on a tripod.
2. Remove the protective cover plate from the Leaf digital camera back.
3. Attach the Leaf digital camera back to the camera body by moving the Leaf digital camera back toward the camera body and check that the camera’s support hooks fit into the slots on the Leaf digital camera back.
4. Push the top of the Leaf digital camera back toward the camera body until it locks into place.

![Attaching Leaf digital camera back to Contax 645 AF camera body](image.png)
Connecting the Cables

Connecting the Flash Sync Cable

**Note:** Connecting the Flash Sync cable is optional.

- Connect the Flash Sync cable to the Flash Sync jack of the Contax 645 AF.

Connecting Flash Sync cable to Contax 645 AF

Connecting the FireWire Cable

For information about the connecting the FireWire cable, see *Chapter 2, Connecting the FireWire Cable.*
Removing the Leaf Digital Camera Back From the Camera Body

1. Place the camera on a steady, flat surface.
2. Turn the camera off.
3. Disconnect the FireWire cable.
4. Slide and press the Release button on the Leaf Valeo digital camera back to the left side.
5. Tilt the camera back away from the camera body to remove it.
Hasselblad H1

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to the Hasselblad H1 camera.

Items Required for the Installation

The following table describes what is included in the Leaf Valeo digital camera back kit for the Hasselblad H1 camera and which items in the kit are required for the installation.

**Important:** To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back with Hasselblad H1 mount</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Focusing screen</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (15 cm / 6 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
<tr>
<td>Cleaning supplies (isopropyl alcohol, cleaning wipes, tweezers)</td>
<td>(keep on hand)</td>
</tr>
<tr>
<td>Diffusion filter</td>
<td>No</td>
</tr>
<tr>
<td>Gray card (18%)</td>
<td>No</td>
</tr>
</tbody>
</table>
Quick Installation Reference

1. Install the focusing screen.
2. Remove the protective cover from the Leaf digital camera back and mount the back onto the camera body.
3. Install the Leaf Capture V8 application from the CD.
4. Start the Leaf Capture V8 application.
5. Connect the FireWire cable between the computer and the Leaf digital camera back.

After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

**Note:** If you want to work with an external flash or strobe, connect the Flash Sync cable between the camera and the flash or strobe unit.

(left) Leaf Valeo digital camera back ports and jacks
(right) Leaf Valeo digital camera back on Hasselblad H1 camera body
Installation Procedures

The procedures in this section together constitute the basic installation process.

Installing the Focusing Screen

The focusing screen enables you to view the exact area that the Leaf digital camera back captures. Before you can install the supplied focusing screen, you must remove the camera’s original viewfinder screen.

To remove the original viewfinder screen:
1. Remove the Hasselblad viewfinder.
2. Place a pointed instrument into the viewfinder screen removal lug, and pull upwards to remove the viewfinder screen.

To install the focusing screen:
1. Position the right side of the focusing screen so that it sits correctly in the recess.
2. Place the tip of a pointed instrument into the viewfinder screen replacement indentation, and then press downwards until the viewfinder screen snaps into place.
Important:

Never touch the surface of the focusing screen. If there is dust on the screen, use a blower or soft lens brush to remove it.

Store unused focusing screens in the screen case according to the instructions on the case.

Attaching the Leaf Digital Camera Back to the Camera Body

1. Mount the camera body on a tripod.
2. Remove the protective cover plate from the Leaf digital camera back.
3. Position the magazine retention groove onto the magazine support on the camera body.
4. Swing the Leaf digital camera back toward the camera body and firmly press it into place until you hear a click.
Connecting the Cables

Connecting the Flash Sync Cable

**Note:** Connecting the Flash Sync cable is optional.

- Connect the Flash Sync cable to the Flash Sync jack of the Hasselblad H1 camera body.

Connecting Flash Sync cable to Hasselblad H1

Connecting the FireWire Cable

For information about connecting the FireWire cable, see Chapter 2, *Connecting the FireWire Cable*. 
Removing the Leaf Digital Camera Back From the Camera Body

1. Place the camera on a steady, flat surface.
2. Turn the camera off.
3. Disconnect the FireWire cable.
4. Press gently on the center of the magazine release button, twist it clockwise until it stops (1), and then press the button firmly inwards toward the camera body (2) to release the Leaf digital camera back.

**Important:** Make sure to press on the center of the magazine release button, not on the lever.

![Removing Leaf digital camera back from Hasselblad H1 camera](image)
Hasselblad (500 Series)/Horseman DigiFlex II

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to Hasselblad (500 series) and Horseman Digiflex II cameras.

Items Required for the Installation

The following table describes what is included in the Leaf Valeo digital camera back kit for the Hasselblad (500 series) and for the Horseman Digiflex II cameras and which items in the kit are required for the installation.

**Important:** To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back with Hasselblad mount</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Focusing screen mask</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (18 cm / 7 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (25 cm / 10 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
<tr>
<td>Cleaning supplies (isopropyl alcohol, cleaning wipes, tweezers)</td>
<td>(keep on hand)</td>
</tr>
<tr>
<td>Diffusion filter</td>
<td>No</td>
</tr>
<tr>
<td>Gray card (18%)</td>
<td>No</td>
</tr>
</tbody>
</table>
Quick Installation Reference

1. **Hasselblad (500 series) users**—Install the focusing screen mask into the viewfinder.

2. Remove the protective cover from the Leaf digital camera back and mount the back onto the camera body.

3. **Hasselblad (500 series) users**—Connect the Camera-to-Back Sync cable between the camera lens and Leaf digital camera back.

4. Install the Leaf Capture V8 application from the CD.

5. Start the Leaf Capture V8 application.

6. Connect the FireWire cable between the computer and the Leaf digital camera back.

   After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

**Notes:**

If you want to work with an external flash or strobe, connect the Flash Sync cable between the camera and the flash or strobe unit.

**For Hasselblad 553ELX, and 500EL/M, 503CW + winder users**—To trigger the camera from the computer, connect the Camera Control cable (not supplied with the camera back) between the camera body and the Leaf digital camera back.

**For Hasselblad (500 series) users**—When working in B-mode, the camera release button must be in Film position.
Camera-to-Back Sync jack
Flash Sync jack
AUX. port
FireWire port
Camera Control jack

(left) Leaf Valeo digital camera back ports and jacks
(right) Leaf Valeo digital camera back with Hasselblad (500 series) camera
Installation Procedures

The procedures in this section together constitute the basic installation process.

Installing the Focusing Screen Mask

Note: This procedure is for Hasselblad (500 series) users only.

The focusing screen mask enables you to view the exact area that the Leaf digital camera back captures.

1. Remove the viewfinder from the camera body according to the manufacturer’s instructions.

2. Place the focusing screen mask on top of the Hasselblad focusing screen.

3. Reinstall the camera viewfinder.
Attaching the Leaf Digital Camera Back to the Camera Body

1. Mount the Hasselblad or Horseman DigiFlex II camera on a tripod.
2. Remove the protective cover plate from the Leaf digital camera back.
3. Connect the Leaf digital camera back to the camera body in either portrait or landscape orientation. Rest the Leaf digital camera back on the lower supports making sure that the lugs are properly engaged in the recesses.

   **Note:** The Horseman DigiFlex II supports landscape orientation only.

4. Move the digital back toward the camera body and check that the upper support hooks on the camera fit into the slots on the Leaf digital camera back, and lock it into place.

Connecting Leaf digital camera back to camera body
Notes:

For Hasselblad (500 series) users—To switch from landscape to portrait orientation, remove the Leaf digital camera back and rotate it 90° counterclockwise, then attach it again to the camera body.

For Hasselblad 555 ELD users—Insert the Release button into the Dig Release port.

Important: For Horseman DigiFlex II users—Set the ID selector at the bottom of the camera to zero (0).
Connecting the Cables

Connecting the Camera-to-Back Sync Cable

Note:
This section is for users of Hasselblad 553ELX, 503CW + winder, and 503EL-M cameras only. The Horseman DigiFlex II camera does not require the Camera-to-Back Sync cable.

1. Insert one end of the Camera-to-Back Sync cable into the Hasselblad Lens Flash jack.

2. Insert the other end of the cable into the Camera-to-Back Sync jack on the Leaf digital camera back.

Connecting Camera-to-Back Sync cable to Leaf Valeo digital camera back

Connecting the Flash Sync Cable

- Connect the Flash Sync cable to the Flash Sync jack on the Leaf digital camera back.

Connecting Flash Sync cable to Leaf Valeo digital camera back
Connecting the Camera Control Cable

Notes:
The Camera Control cable is not required with Hasselblad 555ELD or Horseman DigiFlex II cameras.
The Camera Control cable should be used in Remote mode only when capturing with the Leaf digital camera back from the application.
The Camera Control cable is not supplied with the Leaf digital camera back. It can be ordered separately.

1. Insert one end of the cable into the Hasselblad Remote Control socket.

Connecting Camera Control cable to Hasselblad 553ELX/500 EL-M camera

2. Insert the opposite end of the cable into the Camera Control jack on the Leaf digital camera back.
Connecting Camera Control cable to Leaf Valeo digital camera back

Connecting the FireWire Cable
For information about connecting the FireWire cable, see Chapter 2, Connecting the FireWire Cable.
Removing the Leaf Digital Camera Back From the Camera Body

1. Place the camera on a flat, steady surface.
2. If any of the following cables are connected, disconnect them:
   - FireWire cable
   - Camera-to-Back Sync cable
   - Flash Sync cable
3. Slide the Release button to the right side.
4. Tilt the Leaf digital camera back away from the camera body, and then remove it.
Mamiya RZ67

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to the Mamiya RZ67 camera.

Items Required for the Installation

The following table describes the items you need to install the Leaf Valeo digital camera back on a Mamiya RZ67 camera. The items can be found in the *Leaf Valeo with Hasselblad Mount Kit* and in the *Mamiya RZ Interface Kit*.

**Important:** To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back with Hasselblad mount</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Mamiya RZ67 adaptor plate*</td>
<td>Yes</td>
</tr>
<tr>
<td>Focusing screen mask*</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (25 cm / 10 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
<tr>
<td>Cleaning supplies (isopropyl alcohol, cleaning wipes, tweezers)</td>
<td>(keep on hand)</td>
</tr>
<tr>
<td>Diffusion filter</td>
<td>No</td>
</tr>
<tr>
<td>Gray card (18%)</td>
<td>No</td>
</tr>
</tbody>
</table>

* available in the Mamiya RZ Interface Kit

**Note:** The Hand Release cable and the Camera Control cable are only supplied in the *Mamiya RZ Interface Kit for Valeo 6*. The Camera Control cable is sold separately for other Leaf Valeo digital camera backs.
Quick Installation Reference

1. Install the focusing screen mask into the viewfinder.
2. Mount the adaptor plate on the camera body.
3. Remove the protective cover from the Leaf digital camera back.
4. Attach the Leaf digital camera back on the adaptor plate.
5. Connect the Camera-to-Back Sync cable between the camera lens and Leaf digital camera back.
6. Install the Leaf Capture V8 application from the CD.
7. Start the Leaf Capture V8 application.
8. Connect the FireWire cable between the computer and the Leaf digital camera back.

After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

**Notes:**

If you want to work with external flash or strobe, connect the Flash Sync cable between the Leaf digital camera back and the flash or strobe unit.

To trigger the camera from the computer, connect the Camera Control cable (not supplied with the camera back) between the camera body and the Leaf digital camera back.

**For Valeo 6 users**—Connect the Camera Control cable between the camera body and the Leaf digital camera back, and then connect the Hand Release cable to the Hand Release jack in the Mamiya adaptor plate.
(left) Leaf Valeo digital camera back ports and jacks
(right) Leaf Valeo digital camera back on Mamiya RZ67 Camera

[3] AUX. port
Installation Procedures

The procedures in this section together constitute the basic installation process.

Installing the Focusing Screen Mask

The focusing screen mask enables you to view the exact area that the Leaf digital camera back captures.

1. Remove the viewfinder from the camera body according to the manufacturer's instructions.

2. 
   - **For Valeo 6 and Valeo 11 users:** Place the focusing screen mask on top of the Mamiya RZ67 focusing screen, and make sure the mask is placed under the slots on both sides.
   - **For Valeo 22 users:** Remove the Mamiya RZ67 focusing screen, and then replace it with the supplied focusing screen.

3. Reinstall the viewfinder on the camera body according to the manufacturer's instructions.

Installing focusing screen mask to Mamiya RZ67 camera
Attaching the Leaf Digital Camera Back to the Camera Body

1. Mount the Mamiya RZ67 camera on a tripod.
2. Insert the four studs on the Mamiya camera body into the four holes on the Mamiya adaptor.
3. Secure the adaptor plate to the camera body by flipping the locking lever from right to left into the locked position.
4. Remove the protective cover from the Leaf digital camera back.
5. Connect the Leaf digital camera back to the camera body. Rest the Leaf digital camera back on the lower supports making sure that the lugs are properly engaged in the recesses.
6. Move the Leaf digital camera back toward the camera body and check that the camera’s upper support hooks fit into the slots on the Leaf digital camera back, and lock it into place.
7. Lock the Leaf digital camera back into place.
Locking Leaf Valeo digital camera back into position

**Note:** Make sure the Multiple/Revolving lever is set to Manual.

**To change the orientation of the Leaf digital camera back:**

1. Switch the Multiple/Revolving lever on the side of the Mamiya RZ67 camera to **R** position.
2. To switch from landscape to portrait orientation, gently rotate the Leaf digital camera back 90° clockwise until it snaps into place.
Connecting the Cables

This section contains procedures for connecting various cables for use with the Mamiya RZ67 camera.

Connecting the Camera Control Cable

Note: Make sure the lever on the Camera Control cable is in O position.

1. Insert one end of the Camera Control cable (lever facing down) into the Mamiya release jack on the front of the camera.
2. Turn the lever to the L position to lock it.
3. Insert the opposite end of the cable into the Camera Control socket on the Leaf digital camera back.

Connecting Camera Control Cable to Leaf digital camera back
Connecting the Camera-to-Back Sync Cable

1. Insert one end of the Camera-to-Back Sync cable into the Mamiya
   Lens Flash jack.
2. Insert the other end of the cable into the Camera-to-Back Sync jack
   on the adaptor plate.

Connecting Camera-to-Back Sync cable to Leaf digital camera back

Connecting the Hand Release Cable

Notes:
This procedure is for Leaf Valeo 6 users only.
Do not change the Hand Release mode to the LT mode.

1. Insert one end of the Hand Release cable into the Hand Release jack on
   the Mamiya adaptor plate.

Connecting Hand Release cable to Mamiya adaptor plate
Connecting the Flash Sync Cable

**Note:** The Leaf Valeo digital camera back together with the Flash Sync cable is only suitable for use with external flash or strobe lighting.

- Connect the flash sync cable to the Flash Sync connector on the Leaf digital camera back.

![Connecting Flash Sync cable to Leaf digital camera back](image)

Connecting the FireWire Cable

For information about connecting the FireWire cable, see Chapter 2, *Connecting the FireWire Cable*.

Removing the Leaf Digital Camera Back From the Camera Body

1. Place the camera on a steady, flat surface.
2. If any of the following cables are connected, disconnect them:
   - FireWire cable
   - Camera Control cable
   - Camera-to-Back Sync cable
   - Flash Sync cable
3. Slide the Release button to the right side.
Removing Leaf digital camera back from camera body

4. Tilt the camera back away from the camera body to remove it.
Mamiya RB

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to the Mamiya RB camera.

Note:

For Leaf Valeo 6 only—The supported shutter speed is up to 1/60 with flash lighting, and up to 1/15 with continuous lighting. For an unlimited shutter speed, use the Kapture Group One-Shot Hand Release cable, which you can purchase from your local dealer.

Items Required for the Installation

The following table describes the items you need to install the Leaf Valeo digital camera back on a Mamiya RB camera. The items can be found in the Leaf Valeo with Hasselblad Mount Kit and in the Mamiya RB Interface Kit.

Important: To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back with Hasselblad mount</td>
<td>Yes</td>
</tr>
<tr>
<td>Mamiya RB adaptor plate*</td>
<td>Yes</td>
</tr>
<tr>
<td>Focusing screen mask*</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf DM FireWire cable (25 cm / 10 in.)</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
<tr>
<td>Cleaning supplies (isopropyl alcohol, cleaning wipes, tweezers)</td>
<td>(keep on hand)</td>
</tr>
<tr>
<td>Diffusion filter</td>
<td>No</td>
</tr>
<tr>
<td>Gray card (18%)</td>
<td>No</td>
</tr>
</tbody>
</table>

* available in the Mamiya RB Interface Kit
Quick Installation Reference

1. Install the focusing screen mask into the viewfinder.
2. Mount the adaptor plate on the camera body.
3. Remove the protective cover from the Leaf digital camera back.
4. Attach the Leaf digital camera back on the adaptor plate.
5. Connect the Camera-to-Back Sync cable between the camera lens and the Leaf digital camera back.
6. Install the Leaf Capture V8 application from the CD.
7. Start the Leaf Capture V8 application.
8. Connect the FireWire cable between the computer and the Leaf digital camera back.

After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

**Note:** If you want to work with an external flash or strobe, connect the Flash Sync cable between the Leaf digital camera back and the flash or strobe unit.
Installation Procedures

The procedures in this section together constitute the basic installation process.

Installing the Focusing Screen Mask

The focusing screen mask enables you to view the exact area that the Leaf digital camera back captures.

1. Remove the viewfinder from the camera body according to the manufacturer’s instructions.

2. Place the focusing screen mask on top of the Mamiya RB focusing screen, and make sure the mask is placed under the slots on both sides.

3. Reinstall the viewfinder on the camera body according to the manufacturer’s instructions.
Attaching the Leaf Digital Camera Back to the Camera Body

1. Mount the Mamiya RB camera on a tripod.
2. Flip the locking lever on the camera body from left to right into Open position.
3. Attach the Mamiya RB adaptor plate to the camera body.
4. Insert the four studs on the adaptor into the four holes on the camera body.
Attaching Mamiya RB adaptor plate to Mamiya RB camera

5. Secure the adaptor plate to the camera body by flipping the locking lever on the camera body from right to left into the Locked position.

6. Remove the protective cover from the Leaf digital camera back.

7. Connect the Leaf digital camera back to the camera body. Rest the Leaf digital camera back on the lower supports making sure that the lugs are properly engaged in the recesses.

8. Move the Leaf digital camera back toward the camera body while making sure that the camera’s upper support hooks fit into the slots on the Leaf digital camera back.

9. Push the top of the Leaf digital camera back toward the camera body until it locks in place.
To change the orientation of the Leaf digital camera back:

- To switch from landscape to portrait orientation, gently rotate the Leaf digital camera back 90° clockwise until it snaps into place.
Connecting the Cables

Connecting the Camera-to-Back Sync Cable
1. Insert one end of the cable into the Mamiya Lens Flash jack.
2. Insert the opposite end of the cable into the Camera-to-Back Sync jack on the adaptor plate.

Connecting Camera-to-Back Sync cable to Leaf digital camera back

Connecting the Flash Sync Cable

**Note:** You can use only external flash or strobe light with the Leaf digital camera back.

- Connect the Flash Sync cable to the Flash Sync connector on the Leaf digital camera back.
Connecting Flash Sync cable to Leaf Valeo digital camera back

Connecting the FireWire Cable
For information about connecting the FireWire cable, see Chapter 2, Connecting the FireWire Cable.

Removing the Leaf Digital Camera Back from the Camera Body
1. Place the camera on a solid, steady surface.
2. If any of the following cables are connected, disconnect them:
   • FireWire cable
   • Camera-to-Back Sync cable
   • Flash Sync cable
3. Slide the Release button to the right side.
4. Tilt the camera back away from the camera body to remove it.
Large Format

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Before Getting Started

This chapter describes the Leaf Valeo digital camera back installation as it applies to large format cameras and other view cameras.

With the Rollei electronic shutter and the Rollei Lens Control unit, the Leaf Capture V8 application enables you to change shutter speed and lens aperture on the large format camera from the application.

The Leaf Valeo digital camera back can also be used with a mechanical shutter lens such as the Copal shutter.

Items Required for the Installation

The following table describes what is required for the Leaf Valeo digital camera back installation when working with the Leaf *Large Format Power Kit* for the Rollei electronic shutter or a mechanical shutter lens.

**Important:** To avoid installation and operation problems, use only the accessories supplied in the Leaf digital camera back kit.

<table>
<thead>
<tr>
<th>Kit Contents</th>
<th>Required for Basic Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Valeo digital camera back</td>
<td>Yes</td>
</tr>
<tr>
<td>Camera-to-Back Sync cable</td>
<td>Yes</td>
</tr>
<tr>
<td>FireWire cable (4.5 m / 15 ft.)</td>
<td>Yes</td>
</tr>
<tr>
<td>4 x 5 Graflock adaptor</td>
<td>Yes</td>
</tr>
<tr>
<td>Live Video View software access key</td>
<td>Yes</td>
</tr>
<tr>
<td>Leaf Capture V8 software CD</td>
<td>Yes</td>
</tr>
<tr>
<td>Documentation (Leaf documentation CD and printed documentation)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Additional Items Required for Rollei Electronic Shutter Installation**

- Rollei Lens Control                               | Yes |
- Lens Control power interface                      | Yes |
- AC adaptor for Rollei Lens Control and power cord | Yes |
- Rollei-Valeo Lens Control interface cable         | Yes |
- Lens Control flex holder and clamp                | Yes |
Connecting the Leaf Valeo digital camera back to a large format camera and Rollei Lens Control

1. Make sure the camera is securely mounted on a tripod.
2. Attach the lens with the Rollei shutter to the large format camera.
3. Attach the Graflock adaptor to the backside of the camera and secure it.
4. Remove the protective cover from the Leaf digital camera back.

Leaf Valeo on Large Format Camera with Rollei Electronic Shutter
5. Attach the Leaf Valeo digital camera back to the Graflock adaptor.
6. Attach the Lens Control flex holder to the tripod.
7. Attach the Rollei Lens Control to the flex holder.
8. Connect the cable of the Rollei Lens Control to the Rollei electronic shutter cable.
9. Connect the Rollei Lens Control power interface battery to the Rollei Lens Control.
10. Insert the AC adaptor into the input on the Rollei Lens Control power interface and connect the other end of the power supply cable to the power outlet.
11. Connect one end of the Rollei-Valeo Lens Control interface cable to the B port of the Rollei Lens Control and the other end to the Camera Control jack of the Leaf digital camera back.
12. Insert one end of the Camera-to-Sync cable into the Rollei Lens Control Sync jack and the other end into the Camera-to-Back Sync jack of the Leaf digital camera back.
13. Install the Leaf Capture V8 application from the CD.
14. Insert the Live Video View software access key into the USB port of the computer.
15. Start the Leaf Capture V8 application.
16. Connect the FireWire cable between the computer and the Leaf digital camera back.

After you connect the cable, the application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

Notes:
If you want to work with an external flash, connect the Flash Sync cable between the Leaf digital camera back and the flash or strobe unit.

For information about connecting the FireWire cable, see Chapter 2, Connecting the FireWire Cable.
Leaf Valeo on Large Format Camera with Mechanical Shutter Lens

1. Make sure the camera is securely mounted on a tripod.
2. Attach the mechanical shutter lens to the large format camera.
3. Attach the Graflock adaptor to the back of the camera and secure it.
4. Remove the protective cover from the Leaf digital camera back.
5. Attach the Leaf Valeo digital camera back to the Graflock adaptor.
6. Insert one end of the Camera-to-Sync cable into the mechanical shutter lens and the other end into the Camera-to-Back Sync jack of the Leaf digital camera back.
7. Install the Leaf Capture V8 application from the CD.
8. Insert the Live Video View software access key into the USB port of the computer.
9. Start the Leaf Capture V8 application.
10. Connect the FireWire cable between the computer and the Leaf digital camera back.

   The application automatically connects to the Leaf digital camera back. When the connection is established, the LED indicator on the Leaf digital camera back turns from orange to green.

Notes:

If you want to work with an external flash, connect the Flash Sync cable between the Leaf digital camera back and the Flash/Strobe units.

For Leaf Valeo 6 only—The supported shutter speed is up to 1/60 with flash lighting, and up to 1/15 with continuous lighting. For an unlimited shutter speed, use the Kapture Group One-Shot Hand Release cable, which you can purchase from your local dealer.

For information about connecting the FireWire cable, see Chapter 2, Connecting the FireWire Cable.
Leaf Portable Hardware

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## Before Getting Started

Before beginning the installation, ensure that you have all the required materials in the *Leaf Portable Power Kit*.

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<tr>
<th>Item</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf Digital Magazine</td>
<td>![Image]</td>
</tr>
<tr>
<td>12V car lighter adaptor</td>
<td>![Image]</td>
</tr>
<tr>
<td>Camera adaptor</td>
<td>![Image]</td>
</tr>
<tr>
<td>USB card reader and USB cable</td>
<td>![Image]</td>
</tr>
<tr>
<td>Tripod U-adaptor</td>
<td>![Image]</td>
</tr>
<tr>
<td>Leaf DP-67 Applications storage card</td>
<td>![Image]</td>
</tr>
<tr>
<td>Leaf DP-67 (coiled) cable*</td>
<td>![Image]</td>
</tr>
<tr>
<td>Power cord</td>
<td>![Image]</td>
</tr>
<tr>
<td>Fast charger for lithium ion batteries</td>
<td>![Image]</td>
</tr>
<tr>
<td>Leaf Capture V8 Application CD</td>
<td>![Image]</td>
</tr>
<tr>
<td>Two rechargeable lithium ion batteries</td>
<td>![Image]</td>
</tr>
<tr>
<td>Leaf Documentation CD</td>
<td>![Image]</td>
</tr>
<tr>
<td>12V DC power supply</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

*Use of the Leaf DP-67 (coiled) cable is optional with a Leaf Valeo Wi digital camera back.

**Note:** If you are missing any of the kit contents, contact your local Leaf dealer or Creo Service Center.
Items Not Included in the Leaf Portable Kit

<table>
<thead>
<tr>
<th>Item Description</th>
<th>FireWire Cable Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf DP-67 (iPAQ)—Digital Proof (6x7cm display)</td>
<td>Leaf DM* FireWire cable (18 cm / 7 in.)</td>
</tr>
<tr>
<td>Leaf DM* FireWire cable (15 cm / 6 in.)</td>
<td>Leaf DM* FireWire cable (25 cm / 10 in.)</td>
</tr>
</tbody>
</table>

*DM = Digital Magazine

**Note:** The DM FireWire cables are located in the Leaf Valeo camera box.
Charging the Batteries

**Attention:** When charging batteries for the first time, charge them for 24 hours. For further safety precautions, see *Safety Precautions* on page vii.

1. Connect the battery charger with the 12V DC power supply to the power outlet.
2. Pull out the foldaway leg.
3. Insert batteries with contacts facing down and slide the batteries fully down into the contacts.
4. Use the lock-in adaptor to secure the batteries into position. The LED lights up if the batteries are properly connected.

![Inserting and charging batteries](image)

**Notes:**

A constantly illuminated LED indicates fast charge. When the LED starts flashing, the batteries are practically full and can be used. If the batteries are left on the charger for as long as the LED is flashing, approximately 5% extra capacity can be gained. The charging is complete when the LED turns off while the batteries are still connected.

The LED for a second battery may not light up immediately when the battery is connected. If this battery is only partially charged, leave the battery connected, and the LED will light up later.
To remove the batteries:

1. Remove the lock-in adaptor.
2. Disconnect the batteries from the charger by pressing the batteries slightly against the charger, while at the same time, sliding the batteries up to the relevant line (arrow).
3. Lift off the batteries.

**Tip:** You can also charge the batteries in your car using the supplied 12V car lighter adaptor.

**WARNING:**

Only use the supplied 12V DC power supply or 12V car lighter adaptor. Never apply excessive force when connecting or disconnecting a battery. Keep all contacts clean. Do not force down any of the contacts. Do not short circuit the contacts. Never store the battery connected to the charger for an extensive period of time. Do not expose to excessive heat or naked flame. Do not dismantle the product or alter it any way.
Inserting Batteries into the Leaf Digital Magazine

1. Insert the charged batteries into the Leaf Digital Magazine by placing them on the unit so that the hooks on the side of the batteries fit into the slots on the unit (see the illustration Inserting batteries into Leaf Digital Magazine on page 76).

2. Push the batteries in until you hear a click and the batteries lock into place.
Attaching Camera Adaptor to Camera Body

1. Place the camera adaptor on the bottom of the camera body.

2. Align the screw hole on the adaptor with the screw hole on the camera body (see the illustration Attaching camera adaptor to camera body on page 77). Refer to the following table to determine which adaptor screw hole to use.

3. Insert the screw and tighten it.

<table>
<thead>
<tr>
<th>Hole Symbol</th>
<th>Camera Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contax 645</td>
</tr>
<tr>
<td></td>
<td>Hasselblad (500 series and H1), Mamiya RB67, Mamiya RZ67, DigiFlexII, Bronica SQA-I</td>
</tr>
<tr>
<td></td>
<td>Mamiya 645 AF-D, Bronica ETR-SI, Fuji 680GX</td>
</tr>
</tbody>
</table>

Note: You can mount your camera on the tripod using one of the tripod sockets without removing the camera adaptor.
Chapter 10 – Leaf Portable Hardware

Attaching and Removing the Leaf Digital Magazine

**Important:** Only attach/remove the Leaf Digital Magazine when the Leaf digital camera back is attached.

1. While holding the Leaf Digital Magazine with the batteries facing down, slide the Leaf Digital Magazine into the adaptor at the bottom of the camera body (see the illustration on *Attaching Leaf Digital Magazine* on page 78).

2. Push the Leaf Digital Magazine in until you hear a click and it locks into place.
To remove the Leaf Digital Magazine from the digital camera body:

- While pressing the release button (see Figure) on the side of the camera adaptor, pull the Leaf Digital Magazine outward to slide it off.
Connecting the Leaf DM FireWire Cables

**WARNING:** Incorrectly inserting the Leaf DM FireWire cable connector into the FW port will damage the Leaf digital camera back.

1. Connect one end of the Leaf DM FireWire cable (marked with one silver line) to the FW port on the Leaf digital camera back.

2. Connect the other end of the Leaf DM FireWire cable (marked with two silver lines) to the FW port on the Leaf Digital Magazine.

**Note:** The cable end with one line must face the one line on the Leaf digital camera back FW port, and the cable end with two lines must face the two lines on the Leaf Digital Magazine FW port.

(left) Leaf DM FireWire cable (18 cm / 7 in. or 25 cm / 10 in.)
(right) DM 6 inch FireWire cable (15 cm / 6 in.)
FireWire Cable and Camera Connectivity

<table>
<thead>
<tr>
<th>FireWire Cable</th>
<th>Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 cm / 6 in.</td>
<td>Mamiya 645AF-D, Contax 645, Hasselblad H1</td>
</tr>
<tr>
<td>18 cm / 7 in.</td>
<td>Hasselblad 500 series, DigiFlexII, Bronica ETR-SI, Bronica SQA-I</td>
</tr>
<tr>
<td>25 cm / 10 in.</td>
<td>Hasselblad 55x EL series, Mamiya RB 67, Mamiya RZ67, Fuji680GX, large format cameras</td>
</tr>
</tbody>
</table>

Switching Leaf Digital Magazine ON/OFF

- Press the button on the left side of the Leaf Digital Magazine for a few seconds until the green light turns on, and then off.
Connecting Leaf DP-67 (iPAQ) to Leaf Digital Camera Back

Connecting a Leaf DP-67 (iPAQ) allows you to work portably.

1. Connect one end of the Leaf DP-67 (coiled) cable to the AUX port on the Leaf digital camera back (left side).

2. Connect the other end of the Leaf DP-67 (coiled) cable to the connector on the Leaf DP-67 (iPAQ) (with the white logo on the upper side of the cable).

Note: If you are using a Leaf Valeo Wi digital camera back, use of the Leaf DP-67 (coiled) cable is optional.
Using the Tripod U-adaptor

With the Tripod U-adaptor you can mount the camera body and the Leaf Digital Magazine on a tripod. Before mounting, the camera adaptor must be attached to the camera body (see page 77).

**To mount on the tripod:**

1. Attach the Tripod U-adaptor to the tripod.
2. Make sure the locking lever (see 1 in Figure) on the side of the Tripod U-adaptor is in the Open position.
3. Insert the camera into the Tripod U-adaptor so that the hooks on the sides of the camera adaptor fit into the slots of the Tripod U-adaptor (see 2 in *Mounting camera with Leaf Digital Magazine on tripod* on page 84).
4. Push the camera until it locks into place, and secure the camera into place by moving the locking lever (see 1 in Figure) clockwise into the Locked position.

**To remove from the tripod:**

1. Open the locking lever on the side of the Tripod U-adaptor (see 1 in the illustration *Mounting camera with Leaf Digital Magazine on tripod* on page 84).
2. Slide the safety lever (see 3 in the illustration *Mounting camera with Leaf Digital Magazine on tripod* on page 84) to the left and hold it.
3. Remove the camera from the Tripod U-adaptor.
Mounting camera with Leaf Digital Magazine on tripod
Connecting Leaf Digital Magazine to DC Power Supply

- Connect one end of the DC power supply cable to the DC-IN port on the Leaf Digital Magazine, and the other end to the power outlet.

**Note:** When using the power supply, there is no need for batteries.

**WARNING:** Use only the supplied 12V DC power supply.
Diffusion Filter

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Attaching the Diffusion Filter to the Camera

**Note:** Attaching the Diffusion Filter is optional.

The Diffusion Filter can be used to generate custom gain files in order to supplement and enhance the gain files contained in your calibration software.

- Attach the Diffusion Filter to the camera lens.

For information about Gain Calibration, see the *Leaf Capture V8 User Guide* on the documentation CD.
Protective IR Filter Glass

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Cleaning the Protective IR Filter Glass .................................................. 91
Importance of the Protective IR Filter Glass

The Leaf Valeo digital camera back has a protective IR filter glass over the sensor. The sensor is the most important and expensive part of your Leaf digital camera back. It is the component that converts the photographic image viewed by the camera into an electronic signal which can be processed by the Macintosh computer.

WARNING:

The sensor is extremely sensitive to ESD (Electro Static Discharge) and can be damaged by it.

During some stages of the installation process, the protective IR filter glass is exposed to the environment. Do not touch the IR filter glass. Any contamination of the IR filter glass (such as dust or fingerprints) will appear in images that you capture.
Cleaning the Protective IR Filter Glass

1. Remove any condensation that may be inside the ionized nitrogen sprayer nozzle.
2. Spray the protective IR filter glass with ionized nitrogen to remove large dust particles.
3. Fold a cleaning wipe to fit the width of the protective IR filter glass (see image sequence). Hold the wipe with tweezers.

![Image sequence showing steps 1 to 4]

4. Soak the cleaning wipe in isopropyl alcohol, making sure it is sufficiently damp but not dripping.

**WARNING:**

Do not touch any part of the cleaning wipe that will come in contact with the protective IR filter glass.

Do not use a dry cleaning wipe. It can cause ESD damage to the sensor.

5. Clean the protective IR filter with the cleaning wipe, using a single motion from right to left.
6. If necessary, repeat the cleaning procedure until the protective IR filter glass is clean.

Important:

- Never use dry cloth for cleaning.
- Never clean the protective IR filter glass with window or lens cleaner. The residues from these products may permanently cloud the glass plate.
- Never spray compressed air directly on the Leaf Valeo digital camera back.
- Do not reuse cleaning wipes.
- Put the protective cover over the sensor plate whenever the Leaf digital camera back is not attached to the camera. (or simply, not in use?)
- To prevent contamination of the sensor, do not remove the protective IR filter glass.
- The protective IR filter can be replaced only by Leaf dealers or by the Creo Service Center.

Note: Cleaning wipes and cleaning fluid are supplied with the Leaf Valeo digital camera back. You can order additional wipes from your local Leaf dealer or from the Creo Service Center.