

P+S TECHNIK®

**PRO35Digital Image Converter
User Manual**

Model 2002

PRO35 *Digital*



Congratulations!

You now have the tools to produce the look and feel of 35mm film using an electronic camera. The P+S Technik PRO35Digital image converter is designed for use on every 2/3" video camera with B4 Mount.

The unit is optimized for 35mm lenses with large rear optical elements, such as Cooke S4 Primes, Zeiss Ultra Primes and Zeiss HS and others.

Contents

Congratulation	1
Introduction.....	3
Attaching the PRO35Digital to your camera with Lightweight support.....	7
Power connection.....	9
Back Focus adjustment.....	11
Back Focus adjustment without a reliable test chart.....	13

Introduction

Delivery Content PRO35Digital

- 1 – PRO35Digital image converter with an Arri PL lens mount and B4 camera mount.
- 1 – Lightweight support with 15mm Rods; short and long and a short post.
- 2 – Protective caps
- 1 – Power cable

Attaching the PRO35Digital to Your Camera

Avoid Murphy's Law: Assemble and test the PRO35Digital adapter **BEFORE** the first day of your production. After attaching the unit to your camera according to the steps outlined below, be sure to

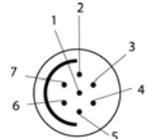
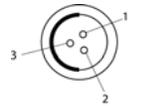
check each of your lenses, f-stop combinations and shutter adjustments for compatibility.

Items needed before you begin: (1) a 2.5mm hex wrench, like the Xcelite 99-74mm, (2) a 35mm format film lens for testing. (3) A high quality test chart, such as the Putora HDTV Sharpness Indicator chart; or for fieldwork, the Putora 7A9 chart, and (4) a monitor.

Munich / New York, 4 December 2002

P+S Technik GmbH
Rosenheimerstrasse 139
81761 München
Germany
Tel: 49 89 4509 8230
www.pstechnik.de
Technical support: info@pstechnik.de



Pos.	Description		Comment
1	INPUT	7 Pin Fischer female socket	Pin 1 – not connected Pin 2 – VTR trigger Pin 3 – Bat - Pin 4 – not connected Pin 5 – not connected Pin 6 – Bat + Pin 7 – RET
		 <p>– view of connector from above–</p>	
2	REMOTE	3 Pin Fisher female socket	Pin 1 – GND Pin 2 – N.C. Pin 3 – VTR
		 <p>–view of connector from above–</p>	
3	RET	RET button	
4	Image Plane	Line and Tape Hook	



Pos.	Description	Comment	
5	Control LED	GREEN → RED (low power) → Blinking light →	Good speed control Acceptable speed Below minimum speed
6	Speed Control	Wheel	
7	Manual RUN	GREEN button	
8	ND Function		Adjustable "ND Filter"
9	Back Focus	Lever	



10 Bottom 3/8-inch
thread for Light
weight support

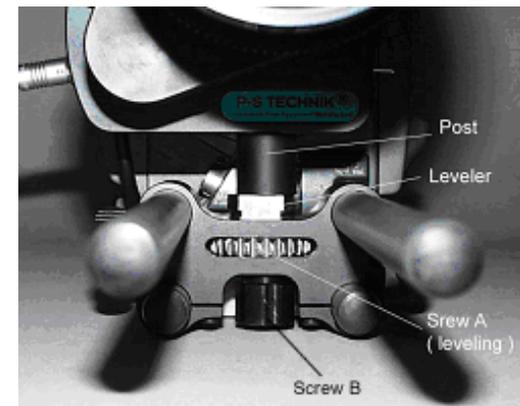
11 Thread for
Bridge plate
support

Follow the steps below to properly attach the PRO35Digital Image Converter to your camera with lightweight support.

Steps	Instructions	Explanatory Notes
1	Make sure that the quick-lock plate holder on the bottom of the camera is provided for lightweight support.	
2	Assemble the support bridge delivered with the PRO35Digital on the quick-lock plate, as shown in photo.	

Continued on next page . . .

-
- 3 Assemble the PRO35Digital.
-
- 3.1 Attach the post to the bottom of the PRO35Digital unit.
-
- 3.2 Lower the support for easier installation (lever shown as Screw A in photo).
-
- 3.3 Loosen two screws on either side of Screw B in photo.
-
- 3.4 Install the PRO35Digital image converter on the camera (B4 Mount) and lock the mount.
-
- 3.5 Raise the support to the correct height (lever shown as Screw A in photo).
-
- 3.6 Engage and tighten the knob B in the bottom of the post.
-
- 3.7 Tighten the two screws placed either side of Screw B.
-



Power Connection for the PRO35Digital

To power the PRO35Digital, you need the power cable #19339, included with the unit.

The power cable is fitted with the standard Hirose 12-pin connector for the lens socket on the camera and the 7-pin Fischer plug for the "Input" socket on the PRO35Digital image converter.

With this power cable, the VTR button on the video camera automatically starts the PRO35Digital unit. Control the PRO35Digital manually with the RUN button, or by remote control via the Fisher 3-pin "Remote" socket.

Manual "RUN" control and VTR signal logic:

<u>MANUAL "RUN" STATUS</u>	<u>VTR SIGNAL</u>	<u>RESULT</u>
OFF	VTR ON* VTR OFF	Image converter ON Image converter OFF
ON	VTR ON* VTR OFF	Image converter ON Image converter ON

***During VTR = ON: The camera is in RECORD MODE and the Manual RUN Button on the PRO35Digital unit is not active.**

Other power cables are available from P+S Technik – these cables only allow the manual function of the RUN button.

Back Focus Adjustment

The PRO35Digital image converter has a back focus adjustment that allows the user to match the flange focal distance of each individual video camera. This adjustment may have to be checked during production if the camera is subjected to significant temperature fluctuations.

The following describes the simple steps needed to adjust the image converter to the camera.

(No special tools are needed):

Steps	Instructions	Explanatory Notes
1	Mount a film lens needs to the Image converter.	Select a mid range film lens; around 50mm.
2	Place a focusing chart at a reasonable distance and set the focus of the film lens at that distance.	
2.1	Turn the image converter ON. Open the adjustable ND FILTER to Position 0.	
2.2	Close the iris of the film lens to around T4.	
2.3	Unscrew the lever, marked "8" in the photo. Turn the ring to adjust for best sharpness.	
2.4	Tighten lever 8. The Pro35Digital image converter is precisely adjusted for the camera.	

Use a good quality monitor to evaluate the picture.

In the field, if a reliable test chart is not available, adjust the back focus using the following method:

Steps	Instructions	Explanatory Notes
1	Mount a film lens to the PRO35Digital.	Select a mid range film lens (around 50mm)
2	Use a white chart.	Set a white chart at a reasonable distance to fill the image.
2.1	Turn the PRO35Digital unit OFF. Open the adjustable “ND filter” to Position 0.	
2.2	Close the iris of the film lens far enough to allow the video camera to show the grain pattern of the ground glass.	
2.3	Unscrew lever “8” (shown labeled in photo), and turn the ring to adjust the sharpness. Tighten lever “8.”	
2.4	When the grain pattern is sharp, the Pro35Digital is precisely adjusted for the camera.	



Optional accessories for the PRO35Digital

- Putora Sharpness Indicator Chart
- # 19339 PRO35Digital power cable
- # 19376 PRO35Digital lens support 19mm

Optional Lens Mounts

Panavision mount (on request).

Contact you local P+S Technik dealer for prices and availability.

North American Distributor
ZGC Film & Video Equipment
Email: les@zgc.com

Australia
LEMAC Film & Video Equipment
Email: jbowring@ozemail.com.au

England
OpTex Television & Film Equipment
Email: simon@optexint.com

France
EMITModern Images Techniques
Email: emit@wanadoo.fr

Holland
Holland Equipment B.V.
Email: sales@hollandequipment.nl

Japan
SHOTOKU CORP.
Email: ebimoto@shotoku.co.jp

Korea
SAMA Electronics Corp.
Email: inn@samakorea.com

Peru, Equador, Bolivien
Moviecenter
Tel. : 00511-221 40 58

Singapore
The Film Equipment Gallery Pte. Ltd.
Email: fegs@pacific.net.sg

Sweden
Svensk Film & Ljusteknik AB
Email: Stig@sfl.se

Taiwan
VIEW POINT IMAGE ASSEMBLINGS
Email : vpia@ms64.hinet.net



printed January 2003