

BARCO

BARCO PROJECTION



QVD (1.3–1.8:1) LENS KIT

R9840950

INSTALLATION MANUAL

Barco nv Intelligent Displays

Noordlaan 5, 8520 Kuurne

Phone: +32 56.36.82.11

Fax: +32 56.35.86.51

E-mail: presentations.bid@barco.com

Visit us at the web: www.barco.com

Copyright ©

All rights reserved. No part of this document may be copied, reproduced or translated. It shall not otherwise be recorded, transmitted or stored in a retrieval system without the prior written consent of BARCO.

Changes

Barco provides this manual 'as is' without warranty of any kind, either expressed or implied, including but not limited to the implied warranties or merchantability and fitness for a particular purpose. Barco may make improvements and/or changes to the product(s) and/or the program(s) described in this publication at any time without notice.

This publication could contain technical inaccuracies or typographical errors. Changes are periodically made to the information in this publication; these changes are incorporated in new editions of this publication.

Trademarks

Brand and product names mentioned in this manual may be trademarks, registered trademarks or copyrights of their respective holders. All brand and product names mentioned in this manual serve as comments or examples and are not to be understood as advertising for the products or their manufactures.

TABLE OF CONTENTS

1. QVD (1.3–1.8:1) Lens Kit	3
1.1 Kit Contents	3
1.2 Removing the installed lens	3
1.3 Installing the new lens	3
1.4 Quick lens Adjustment	4
1.5 Lens Formulas	5
1.6 Cleaning the lens.....	5

1. QVD (1.3–1.8:1) LENS KIT

1.1 Kit Contents

Kit Contents

Contents

- QVD (1.3–1.8:1) Lens.
- Installation Manual.
- Toraysee™ Cloth.

1.2 Removing the installed lens

What has to be done?

Removing the installed lens on the IQ series projector.

Necessary Tools

No tools necessary.



Risk of personal injury. Instructions for lens installation must be followed thoroughly.

How to remove the installed lens?

1. Slide the lensdoor to the left. (image 1-1)
2. Support the lens with one hand.
3. Release the lens by pulling the unlock handle located on the right side of the projector. (image 1-2)
4. Remove the lens out of its housing.



Image 1-2
Release the lens by pulling the unlock handle

Image 1-1
Slide lensdoor to the left

1.3 Installing the new lens

What has to be done?

The lens has to be installed on the IQ series projector.

Necessary Tools

No tools necessary.



Risk of personal injury. Instructions for lens installation must be followed thoroughly.

How to install the new lens?

To install the lens, follow the next procedure:

1. Take the lens out of its packing material.
2. Slide the lensdoor to the left.
3. Fix the lens by placing it in the housing, the female jack (A) must be in front of the male jack (B) located in the upper left part of the housing in the projector. (image 1-3, image 1-4)
4. Push carefully to lock ("click" sound) the lens in the housing.
5. Slide the lensdoor back to the right.



Image 1-3

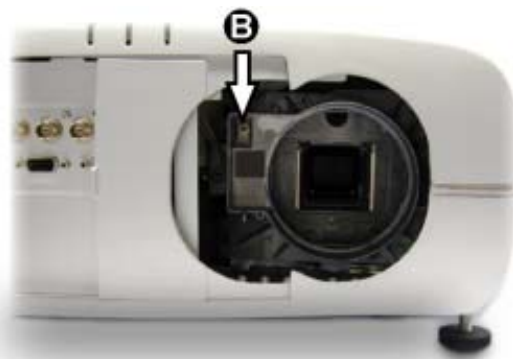


Image 1-4



**Never transport the projector with the lens mounted on it !
Always remove the lens before transporting the projector.**

1.4 Quick lens Adjustment

What can be done ?

For a quick lens set up and image shift, use the RCU dedicated keys or the lens button on the local keypad



Zoom/focus are only available for motorized lenses.

Quick zoom/focus adjustment

1. Press **LENS ZOOM** or **LENS FOCUS** on the RCU
2. Use the arrow keys to adjust

Quick shift adjustment

1. Press **LENS SHIFT**
2. Use the arrow keys to adjust

1.5 Lens Formulas

Lens Formulas

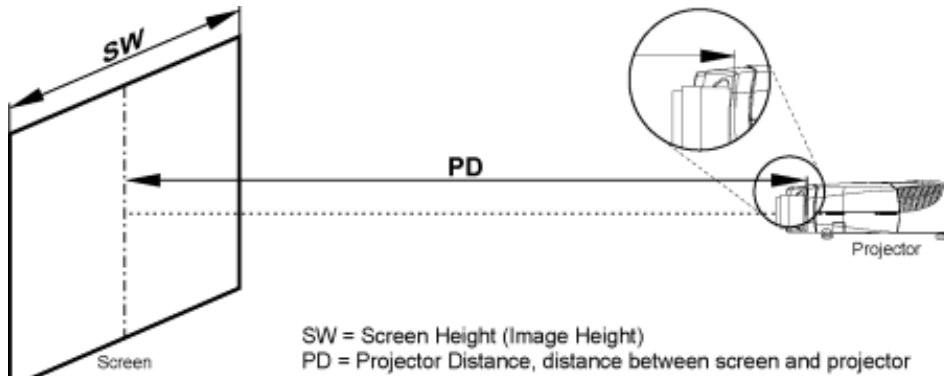


Image 1-5

To calculate the distance between the projector frontside and the screen (PD) for a given screenwidth (SW), use the following formula:

Panels	Metric formulas (PD and SW in meter)	Inch formulas (PD and SW in inch)
1.3"	$PD_{min} = 0.019 + 1.310 \times SW + 0.026 / SW$ $PD_{max} = -0.001 + 1.706 \times SW + 0.069 / SW$	$PD_{min} = 0.75 + 1.310 \times SW + 40.3 / SW$ $PD_{max} = -0.04 + 1.706 \times SW + 107 / SW$
1.4"	$PD_{min} = 0.019 + 1.216 \times SW + 0.028 / SW$ $PD_{max} = -0.001 + 1.584 \times SW + 0.074 / SW$	$PD_{min} = 0.75 + 1.216 \times SW + 43.4 / SW$ $PD_{max} = -0.04 + 1.584 \times SW + 115 / SW$

PD _{min} : Minimal projection distance
PD _{max} : Maximal projection distance
SW _{min} : 1m (39.37inch)
SW _{max} : 6m (236.22inch)

1.6 Cleaning the lens



To minimize the possibility of damaging the optical coating or scratching exposed lens surface, we have developed recommendations for cleaning the lens. **FIRST**, we recommend you try to remove any material from the lens by blowing it off with clean, dry deionized air. **DO NOT** use any liquid to clean the lenses.

Necessary tools

Toraysee™ cloth (delivered together with the lens kit). Order number : R379058.

How to clean the lens ?

Proceed as follow :

1. Always wipe lenses with a CLEAN Toraysee™ cloth.
2. Always wipe lenses in a single direction.
Warning: Do not wipe back and forwards across the lens surface as this tends to grind dirt into the coating.
3. Do not leave cleaning cloth in either an open room or lab coat pocket, as doing so can contaminate the cloth.
4. If smears occur when cleaning lenses, replace the cloth. Smears are the first indication of a dirty cloth.



Do not use fabric softener when washing the cleaning cloth or softener sheets when drying the cloth.
Do not use liquid cleaners on the cloth as doing so will contaminate the cloth.

1. QVD (1.3–1.8:1) Lens Kit



Other lenses can also be cleaned safely with this Toraysee™ cloth.

Revision Sheet

To:

► **Barco nv Intelligent Displays**
Noordlaan 5, 8520 Kurne
Phone: +32 56.36.82.11, Fax: +32 56.35.86.51
E-mail: presentations.bid@barco.com, Web: www.barco.com

From: _____

Date: _____

Please correct the following points in this documentation (**R5976390/02**):

page

wrong

correct