

# BARCO

## BARCO PROJECTION SYSTEMS



**BARCO**

**QGD(1.27:1)  
Kit**

**R9840000**

### INSTALLATION MANUAL

#### LENS QGD(1.27:1) FOR 6000 SERIES

Date :  
060799

Rev :  
2

Art. No. :  
R5976018

Due to constant research, the information in this manual is subject to change without notice.

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# QGD(1.27:1) Lens R9840000

**What has to be done**

This new lens has to be installed on a 6000 serie projector

**Necessary Tools**

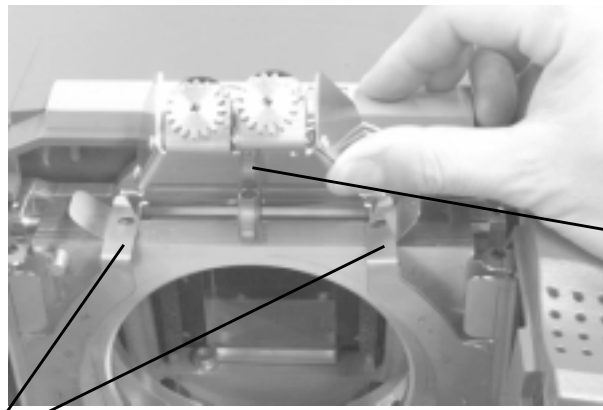
no tool necessary

**Installing the Lens**

To install the lensholder adapter, follow the next procedure :

Step	Action	Image
1	Open the lens cover of the projector.	
2	Pivote the motor part up.	
3	Open both lens locks by pulling them backwards.	1
4	Put the lens and the lens holder with the rounded part down.	1
5	Fix the lens by closing the both locks (A) until they are secured.	2
6	Pivote the motor part (B) down and turn the switch trough the gap in the motor part 90° (see image 1).	2
7	Re-install the lens cover.	

**Illustration**



**Lens lockings**

**Switch**

**Image 1**



**Image 2**

To be continued on next page.

# QGD(1.27:1) Lens R9840000 (Continued)

## Adjusting the Lens

To adjust the lens, follow the next procedure :

Step	Action	Image
1	Unlock the front lens barrel by loosening both hexagon socket screws with an Allen key no.2.	
2	Turn the front lens barrel until the exact screen diagonal matches the reference mark (A)	1
3	Adjust the lens body (B) until the image is focused	1
4	Secure this lens position with the locking ring (C).	1

## Illustration

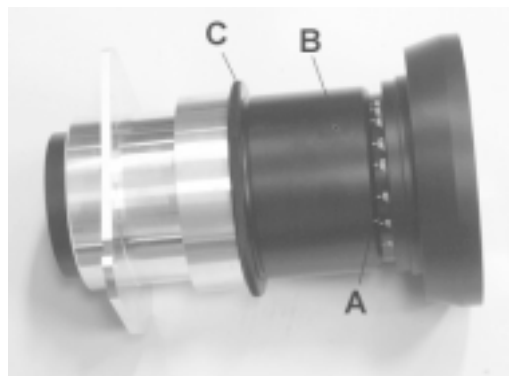


Image 1

## Lens Formula

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

Formulas for BarcoGraphics 6300 :

Metric system (PD and SW in meter) :

$$PD = 1.324 \times SW - 0.065 + 0.0297/SW$$

Inch system (PD and SW in inch) :

$$PD = 1.324 \times SW - 2.56 + 46.03/SW$$

Formulas for BarcoReality 6300 :

Metric system (PD and SW in meter) :

$$PD = 1.356 \times SW - 0.065 + 0.0297/SW$$

Inch system (PD and SW in inch) :

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To be continued on next page.

# QGD(1.27:1) Lens R9840000 (Continued)

## Lens Cleaning Procedure

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.

A Toraysee™ cloth is included with the lens kit.

Proceed as follows :

Step	Action
1	Always wipe lenses with a CLEAN Toraysee™ cloth.
2	Always wipe lenses in a single direction. 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.
5	If smears occur when cleaning lenses, replace the cloth. Smears are the first indication of a dirty cloth.
5	Do not use fabric softener when washing the cleaning cloth or softener sheets when drying the cloth.
6	Do not use liquid cleaners on the cloth as doing so will contaminate the cloth.

## Toraysee Cloth Order Number

Order number for a new Toraysee™ cloth : R379058.

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