
INSTRUCTION MANUAL

Security Ceiling Mount PG-1

The Chief security ceiling mount provides a secure method to install your LCD/DLP projector on a 1 1/2" NPT pipe. The mount provides excellent security and protection while permitting easy access for maintenance.

The mount is constructed of heavy gauge steel, comes with optional security screws, and is designed to ensure proper ventilation for your projector.



BEFORE YOU BEGIN

- **CAUTION:** To prevent damage to the mount, which could affect or void the Factory warranty, thoroughly study all instructions and illustrations before you begin to install the mount. Pay particular attention to the "Important Precautions" on Page 1.
- If you have any questions about this installation, contact Chief Manufacturing at 1-800-582-6480.



IMPORTANT WARNINGS AND CAUTIONS!

WARNING: A **WARNING** alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A **CAUTION** alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

- **WARNING:** Improper installation can result in serious personal injury! Make sure that the ceiling structural members can support a redundant weight factor *five times the total weight of the equipment*. If the ceiling can not support this weight, reinforce the ceiling before installing the mount.
- **CAUTION:** Inspect the unit for shipping damage. See “DIMENSIONAL DRAWING” on page 2

TOOLS REQUIRED FOR INSTALLATION

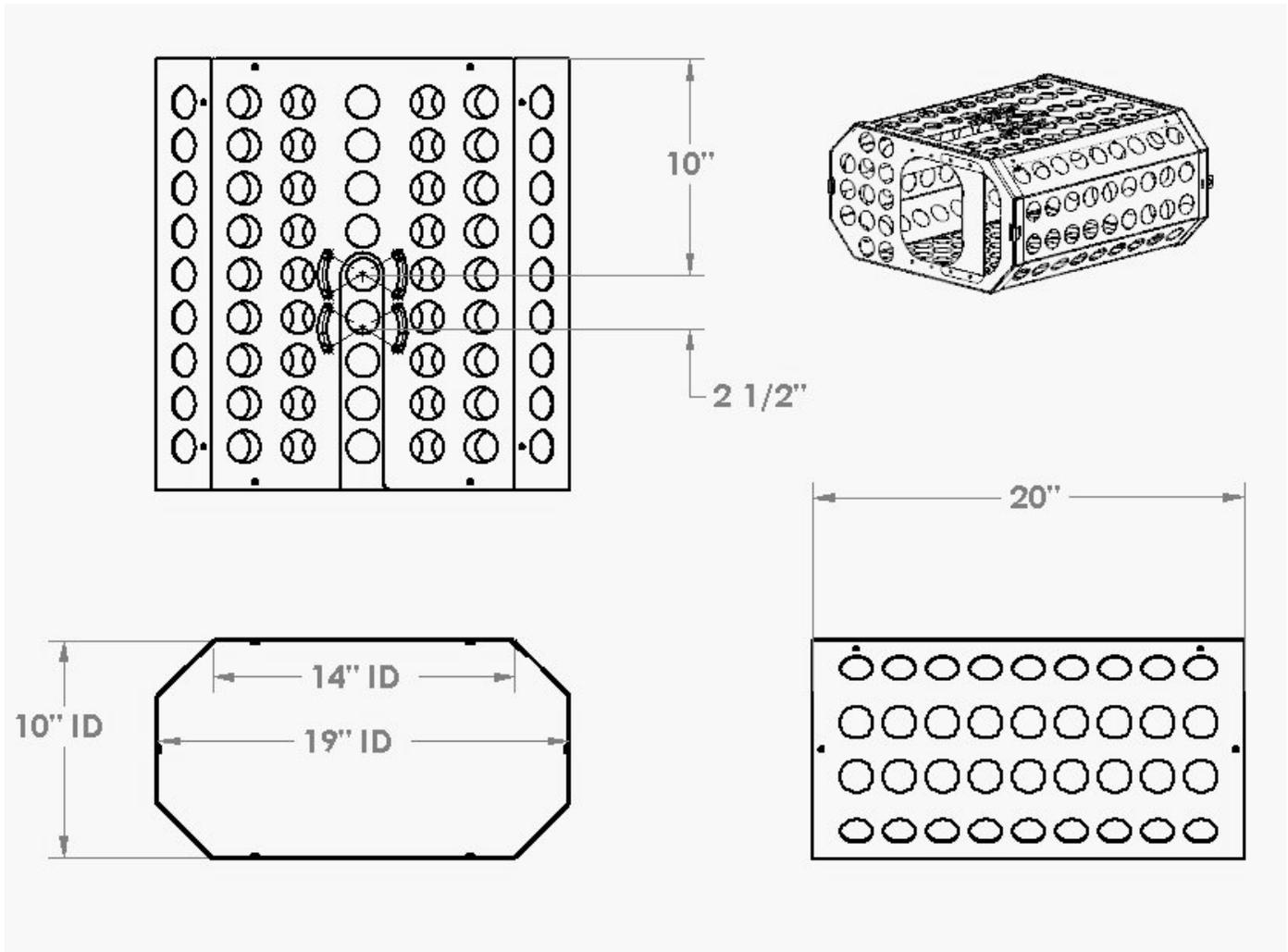
- Allen Wrench (provided)
- Security Wrench (provided)
- Phillips screwdrivers, No. 1 and No. 2

NOTE: Other tools may be required depending on the method of installation.

CONTENTS

DIMENSIONAL DRAWING	2
INSPECT THE UNIT BEFORE INSTALLING	3
MOUNT INSTALLATION PROCEDURES	3
MOUNT Assembly PROCEDURES	3
INSTALLATION PROCEDURES USING SPECIAL FASTENERS.....	4
INSTALLATION PROCEDURES USING AN RPA MOUNT	5
PARTS	6

DIMENSIONAL DRAWING



INSPECT THE UNIT BEFORE INSTALLING

1. Carefully inspect the mount for shipping damage. If any damage is apparent, call your carrier claims agent and do not continue with the installation until the carrier has reviewed the damage.

NOTE: Read all instructions before starting installation.

2. Lay out components to ensure you have all the required parts before proceeding (see “PARTS” on page 6).

MOUNT ASSEMBLY PROCEDURES

1. Using your projector, determine which end of the projector cage will work best as the front of your mount (see Figure 1).
2. Using your projector, determine front end cap mounting location (see Figure 2).
3. Use optional security screws for added security if desired.

MOUNT INSTALLATION PROCEDURES

Because of the wide variety of possible mounting situations, Chief Manufacturing can only provide general guidelines for installation. Study the following information carefully, and adapt it as necessary to fit your specific installation.

WARNING: Be especially aware of the weight of the equipment, and the potential for personal injury or of damage to the equipment if it is not adequately mounted.

The “General Guidelines” below and the information on the following pages cover the most common mounting situations:

- Suspended from a 1” or 1 1/2” diameter NPT threaded pipe using the clamp included.
- Suspended from a 1 1/2” diameter NPT threaded pipe using an RPA (not included).

General Guidelines

- Carefully determine the position of the mount, and its distance from the screen. This will require knowing the lens to screen distance (see projector specifications for set-up).

WARNING: Improper installation can result in serious personal injury! To avoid such injury, make sure that the ceiling structural members can support a redundant weight factor *five times* the total weight of the equipment you intend to support overhead. If they cannot, the ceiling must be reinforced before you install the mount.



Figure 1. Determine Appropriate Orientation

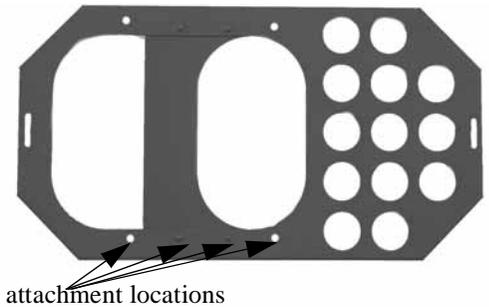


Figure 2. Determine Appropriate End Cap Placement

INSTALLATION PROCEDURES USING SPECIAL FASTENERS

WARNING: Improper installation can cause serious personal injury! Make sure that the ceiling structural members can support a redundant weight factor *five times* the total weight of the equipment you intend to support overhead. The ceiling must be reinforced before you install the mount if the ceiling cannot support a redundant weight factor *five times* the total weight of the equipment.

Installation using a 1" or 1 1/2" diameter schedule 40 steel pipe section with 1 1/2" NPT threads requires securing the pipe to the building structure. We suggest the use of a Chief CMA ceiling plate to secure the pipe to a structural member (see Figure 3). Install the mount on the pipe as follows:

1. Using your projector, the security mount, and the NPT pipe, determine the height location to install the locking collar (top of security mount).
2. For 1 1/2" NPT, install the clamp at the desired height and secure using the U-bolt, 2 flat washers, 2 split lock washers and 2 5/16-18 hex nuts (see Figure 4).
3. For 1" NPT, install the clamp at the desired height and secure using the U-bolt, 2 Nylon spacers, 2 flat washers and two 5/16-18 hex nuts (see Figure 4).
4. Install your projector on the 1" or 1 1/2" NPT pipe.
5. Slide the projector cage over the clamp assembly and secure using two 1/4-20 x 1/2" button head cap screws (optional security) Phillips head screws and washers provided (see Figure 5).
6. Install rear end cap on the projector cage and secure using six 10-24 X 3/8"(optional security) Phillips head screws.
7. Install front end cap, with lens cover attached, on the projector cage and secure using six 10-24 X 3/8"(optional security) Phillips head screws (see Figure 6).
8. Install lock bars through outer slots in front and rear end caps and lock in place (see Figure 7).

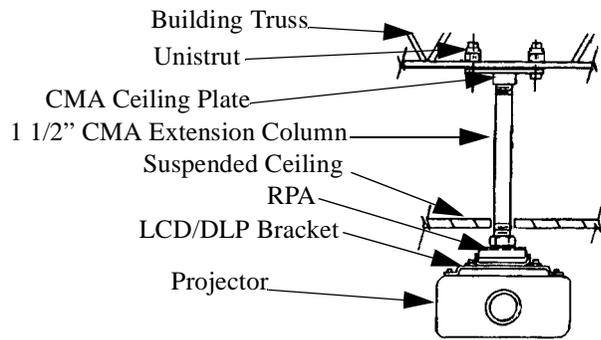


Figure 3. Example Using Pipe (1 1/2")

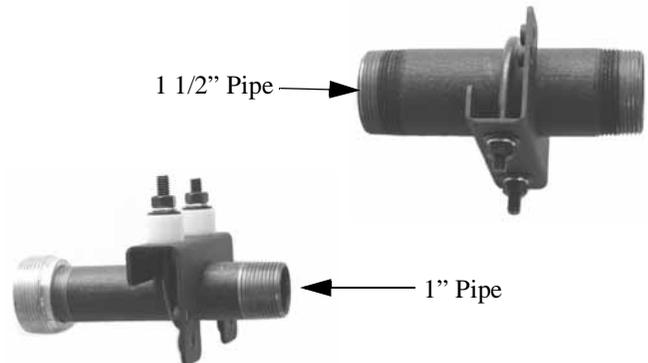


Figure 4. Fasteners on 1 " & 1 1/2" NPT

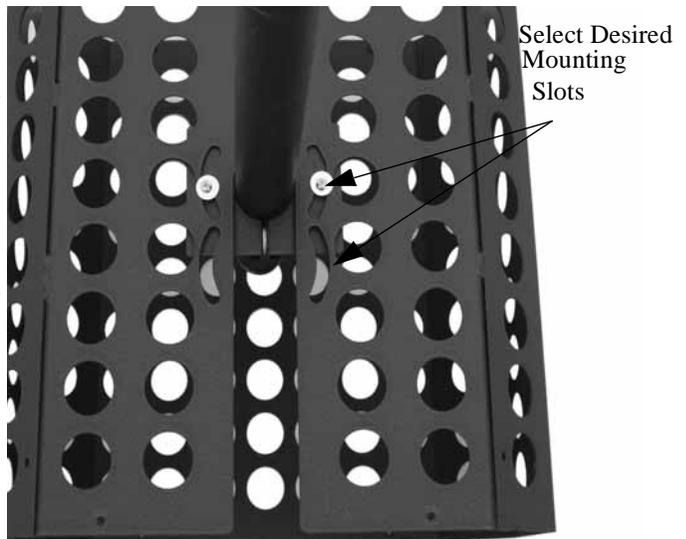


Figure 5. Install Projector Cage Over Locking Collar

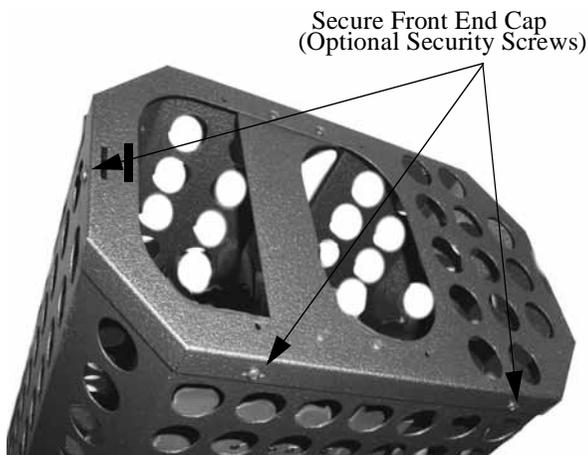


Figure 6. Install Front End Cap

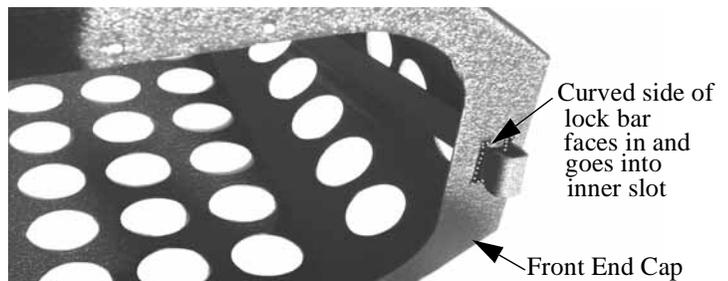


Figure 7. Install Lock Bars

INSTALLATION PROCEDURES USING AN RPA MOUNT

WARNING: Improper installation can cause serious personal injury! Make sure that the ceiling structural members can support a redundant weight factor *five times* the total weight of the equipment you intend to support overhead. The ceiling must be reinforced before you install the mount if the ceiling cannot support a redundant weight factor *five times* the total weight of the equipment.

We suggest the use of a Chief RPA and a CMA ceiling plate to secure the pipe to a structural member (see Figure 4). Install the RPA according to the instructions included with the RPA.

1. Install speed nuts on the RPA (see Figure 8).
2. Install the RPA mount on the 1 1/2" NPT pipe as described in the instructions for your RPA mount.
3. Install your projector on the RPA mount as described in the instructions for your RPA mount.
4. Slide the projector cage over the RPA and secure using four 1/4 - 20 X 1/2" (optional security) Phillips head screws and washers provided (see Figure 9).
5. Install rear end cap on the projector cage and secure using six 10-24 X 3/8" (optional security) Phillips head screws.
6. Install front end cap, with lens cover, on the projector cage and secure using six 10-24 X 3/8" (optional security) Phillips head screws (see Figure 6).
7. Install lock bars through slots in front and rear end caps and lock in place (see Figure 7).

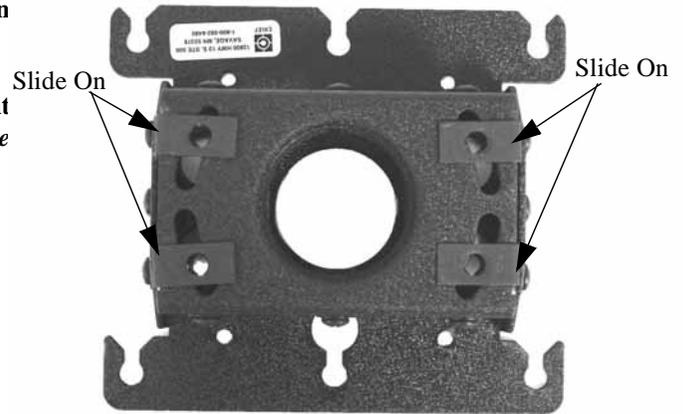


Figure 8. Install Speed Nuts

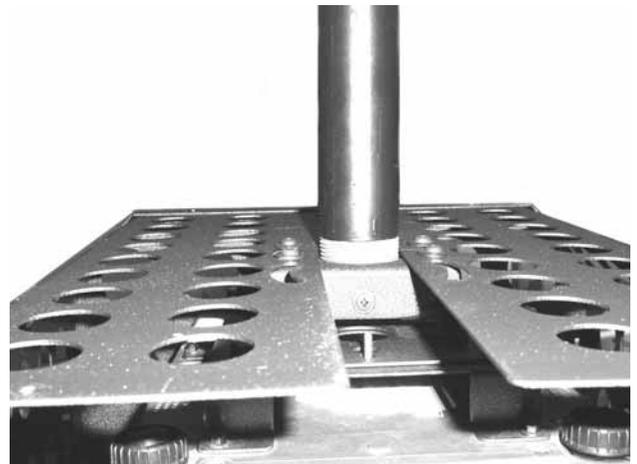


Figure 9. Install Security Mount Over RPA

PARTS

Table 1: Parts

No.	Nomenclature	Qty.
1	CAGE, Projector	1
2	CAP, End, Back	1
3	CAP, End, Front	1
4	COVER, Lens	1
5	BAR, lock	1
6	CLAMP	1
7	U-BOLT	1
8	SCREW, Pan Head, Cap, Black Oxide, 10-24 X 3/8"	16
9	SCREW, Security, Pan Head, Cap, Black, 10-24 X 3/8"	16
10	SCREW, Pan Head, Cap, Black Oxide, 1/4-20 X 1/2"	4
11	SCREW, Security, Pan Head, Cap, 1/4-20 X .50"	4
12	WASHER, Flat, Fender, .250"	4
13	WASHER, Lock, 5/16"	2
14	NUT, Hex, 5/16-18	2
15	WASHER, Flat, 5/16"	2
16	WRENCH, security, 5/32"	1
17	SPACER, Nylon (1" NPT Installation Applications Only)	2
18	NUT, Speed (not shown)	4

