



## PRODUCT SPECIFICATION

# Heavy-Duty Spectra® Series BACK BOX AND LOWER DOME

IP66

## Product Features

- Tough, Heavy-Duty Construction
- Stylish, Discreet Design
- Barrel-Type Key Locks
- Bubble Constructed of .177-Inch Thick Acrylic
- Trim Rings – Thick Aluminum Construction
- Protective Cage for Lower Dome (Optional)
- Compatible with All Spectra Dome Drives
- In-Ceiling and Pendant Models Available
- Indoor/Outdoor Applications
- Pendant Models, NEMA 4X and IP66 Rated
- Easy to Install

Featuring reinforced construction, locks, and an optional cage, **Pelco's Heavy-Duty Spectra** is ideal for installations where structural integrity and resistance to vandalism are a priority. The back box is designed to tolerate a high degree of abuse and the lower dome, constructed of .177-inch thick acrylic, provides an optimum combination of strength and optical clarity.

Added thickness, dual wall construction and geometric design enhance the overall durability of the **Heavy-Duty Spectra** without adding unnecessary weight. The spherical shape enhances its impact resistance to possible intrusive force.

Barrel type key locks increase the tamper resistance of the unit. Without a key, the effort required to remove the lower dome by a potential vandal is greatly increased.

### Three Back Box Models Available

**Heavy-Duty Spectra** back box models include the in-ceiling (BB5HD-F), indoor pendant (BB5HD-PG), and environmental pendant (BB5HD-PG-E). All models have enhanced design features for increased durability.

The in-ceiling model has a reinforced mounting system for added security. Once installed the mounting system strengthens the stability of the structure, increasing the unit's overall resistance to vandalism. To optimize the integrity of the vandal-resistant design, the in-ceiling back box should only be installed in a fixed ceiling (not recommended for drop ceiling installation).

Both pendant models are strengthened by a thick shroud and dual wall construction, and are NEMA 4X and IP66 rated. The environmental pendant includes a heater and fan. Pendant models can be mounted to a pole or wall using the IWM Spectra wall mount.



IN-CEILING MODEL  
BB5HD-F AND LD5HDF-1

ENVIRONMENTAL PENDANT  
BB5HD-PG-E AND LD5HDPCG-E1  
(SHOWN WITH IWM-GY WALL MOUNT)

### Lower Dome

The lower dome of the **Heavy-Duty Spectra** features a thick acrylic bubble and a trim ring with all aluminum construction. The increased thickness of the lower dome meets Pelco's stringent standards for optimum optical clarity and strength. The trim ring of the lower dome has an increased thickness for added back box protection, and two barrel type key locks.

### Protective Cage (Optional)

For installations that face the highest threat of vandalism, models are available with a cage. The cage is designed to increase the protection of the unit's bubble with minimal obstruction of the viewed scene. The camera automatically focuses through the cage's bars at medium to high zoom settings, eliminating interference (as shown below). The cage is removable for cleaning purposes – cage hardware is only accessible when the lower dome is removed.



International Standards Organization Registered Firm ISO 9001 Quality System



# TECHNICAL SPECIFICATIONS

## Back Box, In-Ceiling

- Minimum Ceiling Thickness .5-inch; Maximum 1.75-inches
- Quick Disconnect to Dome Drive
- Suitable for use in Environmental Air Handling Spaces
- 7 Alarm Inputs and 2 Aux Outputs

## Back Box, Pendant

- Quick Disconnect to Dome Drive
- 7 Alarm Inputs and 2 Aux Outputs

## GENERAL

Construction		Aluminum
Back Box		Clear acrylic, .177-inch thick at flange
Lower Dome		Thickness .12 x .30 cast stainless steel Black, for maximum discreetness
Cage		
Cage Color		Thickness .12 x .30 cast stainless steel
Cable Entry (Back Box)		
In-ceiling		.75-inch conduit fitting
Pendant		Through 1.5-inch NPT pendant mount
Dimensions		See dimension drawing
Weight (approximate)		
Back Box		
In-ceiling		2.17 lb (.98 kg)
Pendant		4.45 lb (2.02 kg)
Environmental Pendant		4.75 lb (2.15 kg)
Lower Dome		
In-ceiling		1.6 lb (.73 kg)
In-ceiling w/cage		3.6 lb (1.63 kg)
Pendant		1.83 lb (.83 kg)
Pendant w/cage		3.83 lb (1.74 kg)
Environment		
In-ceiling		Indoor only
Pendant		Indoor/Outdoor
Environmental Pendant		Indoor/Outdoor

## Operating Temperature

In-ceiling	32° to 122°F (0° to 50°C)
Pendant	32° to 140°F (0° to 60°C) absolute maximum operating temperature; 32° to 122°F (0° to 50°C) sustained maximum operating temperature.
Environmental Pendant	(Assumes no wind chill factor; for detailed test conditions, contact Pelco.)
Maximum	140°F (60°C) absolute maximum; 122°F (50°C) sustained maximum.
Minimum	-60°F (-51.11°C) absolute minimum; Minimal icing at sustained minimum of -50°F (-45.56°C) ; Prevents icing at sustained minimum of -40°F (-40°C); de-ices .1 inch (2.5 mm) within 3 hours after power-up.

## CERTIFICATIONS

- ◆ CE, Class B (pending)
- ◆ UL/cUL listed (pending)

## Applicable directives/standards

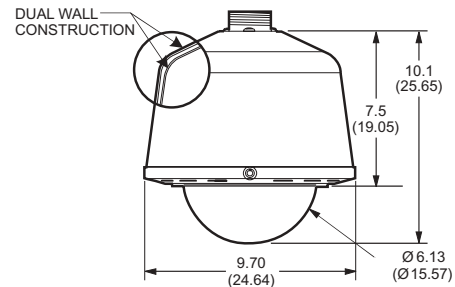
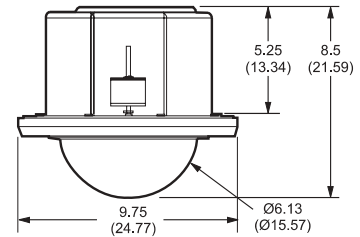
- NEMA Type 4X, IP66 (Pendant models)
- NEMA Type 1, IP40 (In-ceiling models)

## HEAVY-DUTY SPECTRA BACK BOX AND LOWER DOME MODELS

Heavy-duty back boxes and lower domes are not interchangeable. Order the correct lower dome for the right back box.

	Back Box*	Lower Dome*	Lower Dome with Cage*
In-Ceiling	BB5HD-F	LD5HDF-1	LD5HDCF-1
Pendant	BB5HD-PG	LD5HDPG-1	LD5HDCPG-1
Environmental Pendant	BB5HD-PG-E	LD5HDPG-E1	LD5HDCPG-E1

All Spectra model dome drives are compatible with the **Heavy-Duty Spectra** back box models. For dome drive model numbers refer to Pelco's Specification Sheet for the Spectra Lite™ (C1498) and Spectra II® (C1487).



NOTE: VALUES IN PARENTHESES ARE IN CENTIMETERS;

## SPECTRA SYSTEM MODELS

Back Box Type	Cage	SPECTRA II®				SPECTRA LITE™
		16X Color LowLight™	22X Color LowLight™	18X Color/B&W	16X Monochrome	16X Color
In-Ceiling	No	SD5BC-HF1	SD5BC22-HF1	SD5BCBW-HF1	SD5AM-HF1	SD5TAC-HF1
	Yes	SD5BC-HCF1	SD5BC22-HCF1	SD5BCBW-HCF1	SD5AM-HCF1	SD5TAC-HCF1
Pendant	No	SD5BC-HP1	SD5BC22-HP1	SD5BCBW-HP1	SD5AM-HP1	SD5TAC-HP1
	Yes	SD5BC-HCP1	SD5BC22-HCP1	SD5BCBW-HCP1	SD5AM-HCP1	SD5TAC-HCP1
Environmental Pendant	No	SD5BC-HPE1	SD5BC22-HPE1	SD5BCBW-HPE1	SD5AM-HPE1	SD5TAC-HPE1
	Yes	SD5BC-HCPE1	SD5BC22-HCPE1	SD5BCBW-HCPE1	SD5AM-HCPE1	SD5TAC-HCPE1

\* Pendant model back boxes are grey. All lower dome models are clear. Add-X for PAL/CCIR models.

Indicates change or addition since last revision.

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