



DF5 Series DomePak®

COMPLETE, FIXED MOUNT DOME, CAMERA AND LENS PACKAGE

Product Features

- Pre-Packaged Dome, Camera, and Lens
- Easy to Order
- Cosmetically Matches Spectra® Dome
- Indoor and Environmental Models Available
- Hard Ceiling, Suspended Ceiling, and Pendant Applications
- Versatile and Adjustable Fixed Mount Camera Bracket
- High Resolution Color and Black-White Cameras
- Varifocal and Fixed Lens Options
- Pendant Models Meet NEMA Type 4X and IP66 Standards
- Heavy-Duty Models
 - Tough, Reinforced Construction
 - 0.090-inch Injection-Molded Polycarbonate Bubble
 - Barrel-Type Key Locks



DF5 DomePaks combine a fixed-mount dome enclosure, compact high-resolution camera, and fixed or varifocal lens in an easy-to-order, easy-to-install package.

DF5 DomePaks are packaged under a single part number to make ordering easier; and, because they are pre-configured, they are guaranteed to be compatible.

DF5 DomePaks are available in a variety of styles for different applications. Select from in-ceiling, pendant (indoor or outdoor), or heavy-duty models. And, because they are designed to look like Spectra III™ Series integrated dome systems, they are the perfect complement to new or existing installations.

DomePak allows choices between color (NTSC or PAL) or black-white (EIA only) high resolution compact cameras and a variety of lenses ranging from 2.3 mm to 5-50 mm fixed focal length or varifocal length, and 3-8.5 and 7.5-50 varifocal infrared lenses. Choose between auto or manual iris.

DF5 DomePaks are fashioned after Spectra III integrated dome systems, and have a variety of mounting options available, from wall, corner, pole, or parapet mount.

For fixed dome applications requiring specialty enclosures such as stainless steel or pressurized, see Spectra III Series with DD5-FM fixed mount camera adapter.



TECHNICAL SPECIFICATIONS

DOME

MECHANICAL

Cable Entry	
In-ceiling	0.75-inch conduit fitting
Pendant	Through 1.5-inch NPT pendant mount

ELECTRICAL

Input Voltage	24 VAC (environmental models only)
Input Power	45 VA (for heater)

GENERAL

Construction	
Back Box	Aluminum
Mounting Bracket	Steel
Bubble	
DF5, DF5S, DF5-PG Series	Acrylic; smoked, clear, chrome or gold
DF5-HD Series	Polycarbonate; clear, 0.090-inch thick
DF5-OF	Acrylic (flat window); smoked, 0.06-inch thick

ENVIRONMENTAL

Environment	
Outdoor*	(DF5-PG-E0, DF5-PG-E1, or DF5HD-PG-E1)
Maximum	140°F (60°C) absolute maximum; 122°F (50°C) sustained maximum
Minimum	-60°F (-51°C) absolute minimum; prevents icing at sustained minimum of -50°F (-45°C); de-ices 0.1 inch (2.5 mm) within 3 hours after power-up
Indoor	(All other models) 32° to 122°F (0° to 50°C)

*Assumes no wind chill factor.

CERTIFICATIONS/PATENTS

- UL Listed
- UL Listed to Canadian safety standards
- Meets NEMA Type 1, IP20 standards (indoor models)
- Meets NEMA Type 4, IP66 standards (outdoor models)
- U.S. Patents 340,940 and 5,224,675

RECOMMENDED MOUNTS

In-Ceiling Domes

DF5S-SMKIT	Surface mount adapter for DF5S Series with short back box. Includes bezel and hardware.
SCA1	Support rails; use in suspended ceiling applications where additional support is needed.
SD5-P	2' x 2' drop ceiling panel, aluminum construction. Replaces 2' x 2' ceiling tile.

Pendant Domes

BB5-PCA-BK	Conduit adapter, black
BB5-PCA-GY	Conduit adapter, gray
IWM Series	Wall mount with cable feedthrough. Can be adapted for corner (CM400), pole (PA402) or parapet (PP300L/PP301L, PP400, PP4348) applications.
PP350, PP351	Parapet mount; mounts to inside of parapet
SWM Series	Compact wall mount. Can be adapted for corner (SWM-CA) or pole (SWM-PA) applications.

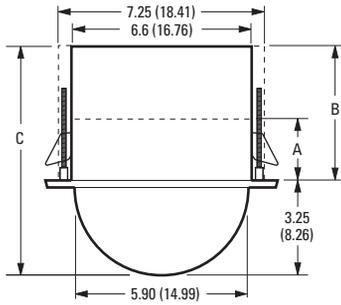
RECOMMENDED POWER SUPPLIES

MCS Series	Multiple 24 VAC camera power supply, indoor
WCS Series	Single/multiple 24 VAC camera power supply, outdoor

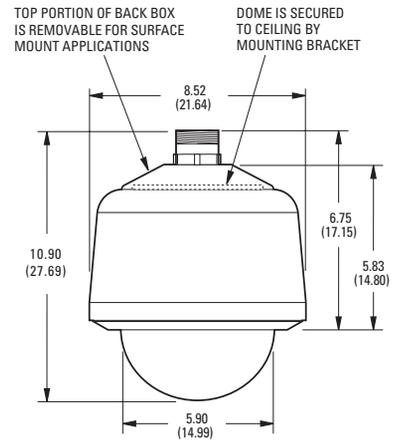
TECHNICAL SPECIFICATIONS

LETTER	MODEL	DIMENSION
A	DF5S SERIES	2.75 (6.99)
B	DF5 SERIES	5.25 (13.34)
C	DF5-0F/DF5-1F	5.60 (14.22)

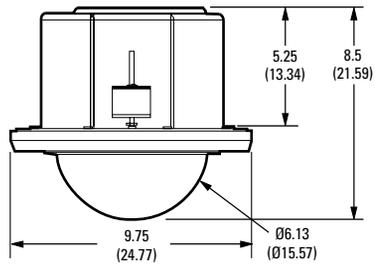
**STANDARD,
IN-CEILING**



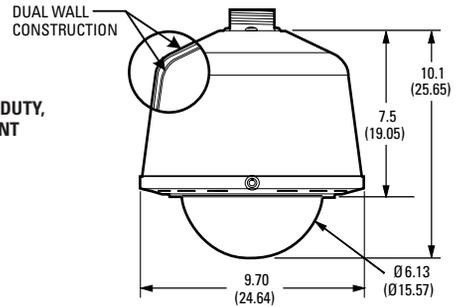
**STANDARD,
PENDANT**



**HEAVY-DUTY,
IN-CEILING**



**HEAVY-DUTY,
PENDANT**



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

TECHNICAL SPECIFICATIONS

CAMERA SPECIFICATIONS

	High Resolution, Day/Night, WDR (NTSC) CCC1390H-6 (KW)	High Resolution, Day/Night, WDR (PAL) CCC1390H-6X (KX)	
Image Device	1/3-inch image format Sony SS-2WD CCD	1/3-inch image format Sony SS-2WD CCD	
Synchronization System	AC line lock/internal	AC line lock/internal	
Horizontal Resolution	530 TVL (B-W); 480 TVL (color)	530 TVL (B-W); 480 TVL (color)	
Electronic Shutter Range	1/60-1/50,000 second	1/50-1/50,000 second	
Minimum Illumination			
B-W (SENS 40x)	0.002 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	0.002 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	
Color (SENS 40x)	0.02 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	0.02 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	
B-W	0.08 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	0.08 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	
Color	0.8 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	0.8 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance	
Signal-to-Noise Ratio	>50 dB	>50 dB	
Automatic Gain Control	Selectable: on/off	Selectable: on/off	
Backlight Compensation	Selectable: on/off	Selectable: on/off	
Scanning System	525 lines, 2:1 interlace	625 lines, 2:1 interlace	
Signal Processing	Digital signal processing (DSP)	Digital signal processing (DSP)	
Auto Iris Lens Type	DC-drive (autosensing)	DC-drive (autosensing)	
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms	
Input Voltage	24 VDC ±15%/12 VDC ±15%, 60 Hz	24 VDC ±15%/12 VDC ±15%, 50 Hz	
Power Consumption	3.5 watts	3.5 watts	
	Ultra High Resolution, Color, NTSC CCC1380UH-6 (UY)	Ultra High Resolution, Color, PAL CCC1380UH-6X (UZ)	High Resolution, Black-White, EIA MCC1380H-6 (BY)
Image Device	1/3-inch CCD	1/3-inch CCD	1/3-inch CCD
Synchronization System	AC line lock/internal	AC line lock/internal	AC line lock/DC internal
Horizontal Resolution	540 TVL	540 TVL	570 TVL
Electronic Shutter Control	Selectable: on/off	Selectable: on/off	Selectable on/off
Minimum Illumination	0.7 lux, F1.2, 40 IRE, AGC on, 75% reflectance	0.7 lux, F1.2, 40 IRE, AGC on, 75% reflectance	0.1 lux, F1.2, 40 IRE, AGC on, 75% reflectance
Signal-to-Noise Ratio	>48 dB	>48 dB	>48 dB
Automatic Gain Control	Selectable: on/off	Selectable: on/off	On/off switchable
Backlight Compensation	Selectable: on/off	Selectable: on/off	On/off switchable
Scanning System	525 lines, 2:1 interlace	625 lines, 2:1 interlace	525 lines, 2:1 interlace
Signal Processing	DSP	DSP	DSP
Auto Iris Lens Type	DC/video drive (autosensing)	DC/video drive (autosensing)	DC/video drive (autosensing)
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms
Input Voltage	24 VAC ±15%, 60 Hz	24 VAC ±15%, 50 Hz	24 VAC ±15%, 60 Hz
Power Consumption	3 watts	3 watts	3 watts
	High Resolution, Color, WDR (NTSC/PAL) CCC5100H-6A (SE)		
Image Device	1/3-inch SIMD		
Synchronization System	Internal/line lock/Pelco V-Sync		
Horizontal Resolution	480 TVL		
Iris Control	Automatic/manual		
Minimum Illumination	0.8 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance		
Signal-to-Noise Ratio	>50 dB		
Automatic Gain Control	On-screen menu, adjustable to 21 dB		
Backlight Compensation	On-screen menu, on/off, four regions		
Scanning System	525 (NTSC), 625 (PAL), 2:1 interlace		
Signal Processing	SIMD digital signal processing (DSP)		
Auto Iris Lens Type	DC-drive		
Video Output	1.0 to 1.2 Vp-p, 75 ohms, adjustable		
Input Voltage	12-36 VDC ±10% or 24-28 VAC ±10%, 47-63 Hz, autosensing		
Power Consumption	4.5 watts maximum		

TECHNICAL SPECIFICATIONS

LENS SPECIFICATIONS

Fixed Focal Lenses	F2.3	F2.8	F4	F8
Focal Length	2.3 mm	2.8 mm	4 mm	8 mm
Format Size	1/3-inch	1/3-inch	1/3-inch	1/3-inch
Mount Type	CS	CS	CS	CS
Relative Aperture (F)	1.4~Close/1.4~360	1.4~Close/1.4~360	1.2~Close/1.2~360	1.2~Close/1.2~360
Operation				
Iris	Manual/Auto (Direct Drive)	Manual/Auto (Direct Drive)	Manual/Auto (Direct Drive)	Manual/Auto (Direct Drive)
Focus	Manual	Manual	Manual	Manual
Angle of View				
Diagonal	143.2°	121.8°	92.3°	43.8°
Horizontal	116.1°	97.4°	71.6°	34.5°
Vertical	87.4°	72.8°	52.7°	25.6°
Min. Object Distance	0.2m	0.2m	0.2m	0.2m

Varifocal Lenses	V2	V21	V3	V5	V50
Focal Length	2.5-6 mm	2.8-12 mm	3-8 mm	5-40 mm	5-50 mm
Zoom Ratio	2.4X	4.3X	2.7X	8X	10X
Format Size	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch
Mount Type	CS	CS	CS	CS	CS
Relative Aperture (F)	1.4~Close/1.4~125	1.4~Close/1.4~360	1.0~Close/1.0~360	1.6~Close/1.6~360	1.4~Close/1.4~185
Operation					
Iris	Manual/Auto (Direct Drive)				
Focus and Zoom	Manual	Manual	Manual	Manual	Manual
Angle of View					
Diagonal	56.8°~133.3°	—	44.9°~117.9°	8.8°~66.9°	—
Horizontal	45.6°~107.6°	24.1°~97.4°	35.9°~91.0°	6.5°~53.6°	5.3°~53.4°
Vertical	34.2°~80.9°	18.1°~72.5°	26.9°~66.6°	4.8°~40.2°	4.1°~40.1°
Min. Object Distance	0.2m	0.3m	0.2m	0.5m	0.5m

Varifocal Infrared Lenses	R3	R75
Focal Length	3-8.5 mm	7.5-50 mm
Zoom Ratio	2.8X	6.7X
Format Size	1/3-inch	1/3-inch
Mount Type	CS	CS
Relative Aperture (F)	1.0~360	1.3~360
Operation		
Iris	Auto (Direct Drive)	Auto (Direct Drive)
Focus and Zoom	Manual	Manual
Angle of View		
Diagonal	41.9°~114.1°	7.00°~46.2°
Horizontal	33.6°~90.5°	5.64°~36.6°
Vertical	25.2°~67.2°	4.26°~27.4°
Min. Object Distance	0.2 m	0.4 m

MODEL NUMBERS

To configure a DF5 DomePak, refer to the selection guides below to compile the appropriate model number. Selection guides are grouped according to dome type.



**DF5 SERIES
IN-CEILING**



**DF5S SERIES
SHORTENED BACK BOX**



**DF5 SERIES
PENDANT**



DH5 HEAVY DUTY



**DF5 WITH FLAT
ACRYLIC PLATE**

In-Ceiling and Pendant Models, Standard Bubble

DF5KW-PB-0F2.3A

- DF5** = Standard DF5
- DF5S** = Shortened DF5 (In-ceiling only)
- DH5** = Heavy duty DF5
- KW** = Day/night, NTSC, high resolution with WDR
- KX** = Day/night, PAL, high resolution with WDR
- UY** = Color, NTSC, ultra high resolution
- UZ** = Color, PAL, ultra high resolution
- SE** = Color, NTSC/PAL, high resolution with WDR
- BY** = Black-white, EIA, high resolution
- PB** = Pendant, black (indoor)*
- PG** = Pendant, light gray (indoor/outdoor)
- Blank** = In-ceiling back box
- 0** = Smoked dome (1/2 f-stop light loss)*
- 1** = Clear dome
- 2** = Chrome dome (2 f-stops light loss)
- 3** = Gold dome (2 f-stops light loss)
- E0** = Outdoor pendant (includes heater and sun shield), smoked dome (1/2 f-stop light loss)
- E1** = Outdoor pendant (includes heater and sun shield), clear dome
- F2.3** = 2.3 mm fixed lens
- F2.8** = 2.8 mm fixed lens
- F4** = 4 mm fixed lens
- F8** = 8 mm fixed lens
- V2** = 2.5-6 mm varifocal lens
- V21** = 2.8-12 mm varifocal lens
- V3** = 3-8 mm varifocal lens
- V5** = 5-40 mm varifocal lens
- V50** = 5-50 mm varifocal lens
- R3** = 3-8.5 mm varifocal infrared lens**
- R75** = 7.5-50 mm varifocal infrared lens**
- Blank** = No lens
- A** = Auto iris
- Blank** = Manual iris

*Not available in heavy duty models.

**Available only as an auto iris lens.

In-Ceiling Models with Flat Acrylic Plate

DF5KW-0F2.3A

- DF5** = Series dome
- KW** = Day/night, NTSC, high resolution with WDR
- KX** = Day/night, PAL, high resolution with WDR
- UY** = Color, NTSC, ultra high resolution
- UZ** = Color, PAL, ultra high resolution
- SE** = Color, NTSC/PAL, high resolution with WDR
- BY** = Black-white, EIA, high resolution
- 0F** = Smoked flat window (1/2 f-stop light loss)
- F2.3** = 2.3 mm fixed lens
- F2.8** = 2.8 mm fixed lens
- F4** = 4 mm fixed lens
- Blank** = No lens
- A** = Auto iris
- Blank** = Manual iris



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