DATASHEET





Very intense

Pattern projection

Flexible







effisharp-psv-hsi

Powerful shape projector

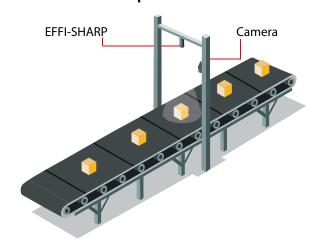
INTRODUCTION

TABLE OF CONTENTS

Part numbering	PAGE 3
TECHNICAL SPECIFICATIONS	page 3
OPTICAL SPECIFICATIONS	PAGE 4
ELECTRONICAL SPECIFICATIONS	PAGE 6
MECHANICAL SPECIFICATIONS	PAGE 7
Contact information	PAGE 7

APPLICATIONS

Sharp standard



Precise spot light with sharp edges for long working distances.

PART NUMBERING

STANDARD VERSION

EFFI-SHARP-PSV-HSI - XX - M

> **Optical lens** Mask

NF: Near Field 1: Square 9x9 mm

MF: Middle Field 2: Disc Ø 15.1 mm

FF: Far Field 3: Half-moon R = 9.5 mm

CM: For any other

C-mount configuration lens

TECHNICAL SPECIFICATIONS

EffiSHARP-PSV-HSI

Illumination Mode	Continuous mode
Spectrum	400-900nm
Power Supply	24V DC
Connector(s)	M12 - 5 pins
Power Consumption	8W
Weight	620g
Dimensions	Height x length x width = 171,9 mm (NF / MF) - 212,4 mm (FF) x 79,1 mm x 79,1 mm
Material	Device body: Aluminum alloy
Fastener	$6 \times M5$ holes on the sides of the device / $4 \times M4$ on the top of the device
IP rating	IP54
Operation environment	Temperature: 0°C to 40°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m
Storage envi- ronment	Temperature: -20° to 60°C - Humidity: 20 to 85%RH (with no condensation)
Informations	Overvoltage category I - Protective class III - Pollution degree 3
Regulations & Marking	CE - UKCA
Environmental Standards	RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation
Country of Origin	France

OPTICAL SPECIFICATIONS

Type of Lens

NF: Near Field	MF: Middle Field	FF: Far Field
NF: 80 to 400 mm	MF: 400 to 3000 mm	FF: 400 to 3000 mm

MASK AND PATTERN PROJECTION (IF NOT SPECIFIED, DEFAULT 2)

1: Square (9 x 9mm)



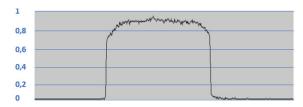
2: Disc (Ø 15.1 mm)



3: Half-moon (R = 9.5 mm)



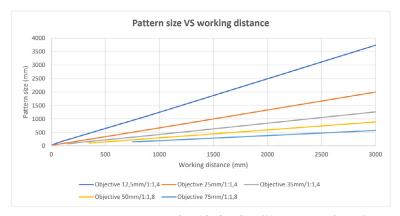
UNIFORMITY





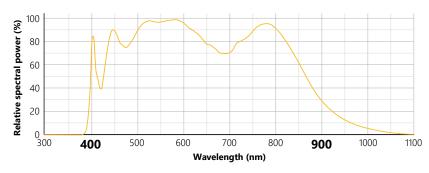
Uniformity higher than 80%

PATTERN SIZE VS WORKING DISTANCE



Notes: Measurements were made with the disc \emptyset 15,1 mm mask (Z=2).

SPECTRUM



C-MOUNT OBJECTIVE SELECTION



Any C-mount objective can be mounted on the EFFI-SHARP-PSV-HSI. The objective is not provided with the EFFI-SHARP-PSV-HSI.

To guarantee the quality of the projector, the pattern is directly mounted in the projector body. However, the pattern can be observed through the aperture of the projector. Avoid any sharp contact with the mask: this one is sensitive and can easily be damaged.

EFFILUX recommends using one of the following objectives with the EFFI-SHARP-PSV-HSI (2/3" 1.5MP and 1" 1.5MP):

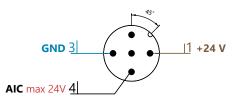
	OBJ-1-F12.5 CF12.5HA-1	OBJ-1-F25 CF25HA-1	OBJ-1-F35 CF35HA-1	OBJ-1-F50 CF50HA-1	OBJ-1-F75 CF75HA-1
Focal length (mm)	12.5	25	35	50	75
Iris range	F1.4 - F22		F1.8 -	- F22	
Angle of view (HxV)	45° 13′ x 42° 01′	28° 43′ x 21° 44′	20° 43′ x 15° 37′	14° 35′ 10° 58′	9° 45′ x 7° 19′
Filter thread	M49 x 0.75 mm				
LxØ	68.5 x 51 mm	75.5 x 51 mm	48.5 x 51 mm	55.5 x 51 mm	76 x 51 mm
Mechanical characteristics					

ELECTRONICAL CONSIDERATIONS

WIRING LAYOUT

The EFFI-SHARP-PSV-HSI is supplied with a 24V constant voltage. The power consumption depends on the intensity which flows through the LED. The maximum is 8W.

M12 5pins - 1 input

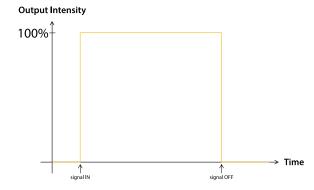


Notes:

- Cable length = 500 mm.
- If the AIC is not connected, the light will light on at 100% as if VAIC=24V. If you don't need to adjust light level do not connect/ use this PIN.

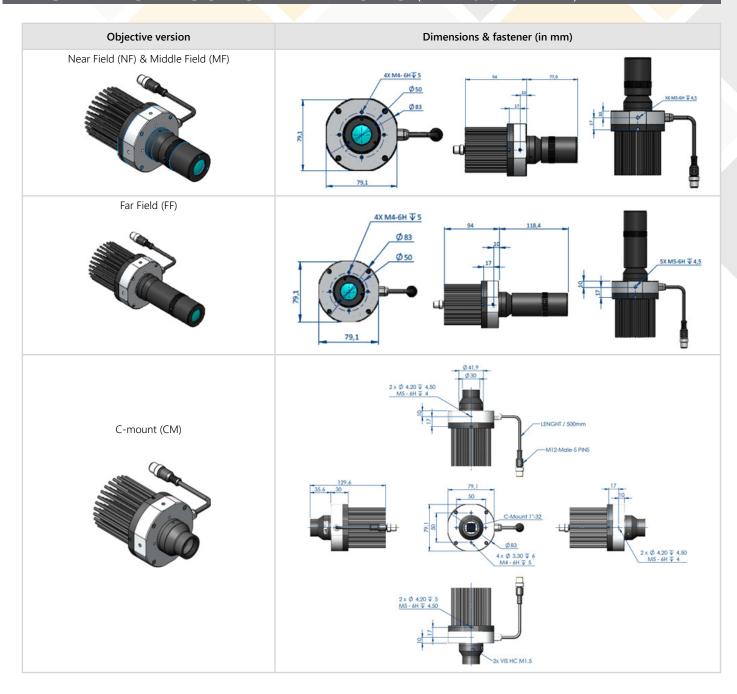
WORKING MODE

Continuous mode



If you set trigger PNP/NPN continuously ON the light will run continuously. The current through the LED can be controlled with the AIC contact (500mA max).

MECHANICAL CONSIDERATIONS (DIMENSIONS IN MM)



ACCESSORIES

Please refer to the specific documentation for additional information on the accessories of the EFFI-SHARP-PSV.



M12

2meters: EFFC-CAB-M12-FM-5-DD-L2 5meters: EFFC-CAB-M12-FM-5-DD-L5 10meters: EFFC-CAB-M12-FM-5-DD-L10



Clamping: EFFM-1-0001 Pivot joint: EFFM-1-0009 Tripod adapter: EFFM-1-0027

CONTACT INFORMATION

Please refer to the specific documentation (datasheet, user manual and drawing) for complementary information. Contents of this document are based on information available as of March 2025 and may be changed without prior notice.



EFFILUX 1, Rue de Terre Neuve Mini Parc du Verger - Bâtiment E 91940 Les Ulis - FRANCE

Tel: +33 9 72 38 17 80 Fax: +33 9 72 11 21 69 Mail: sales@effillux.fr

Copyright 2022 Effllux - All rights Reserved