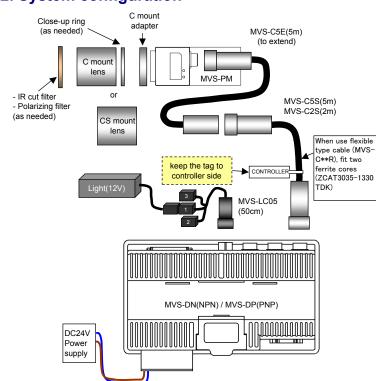


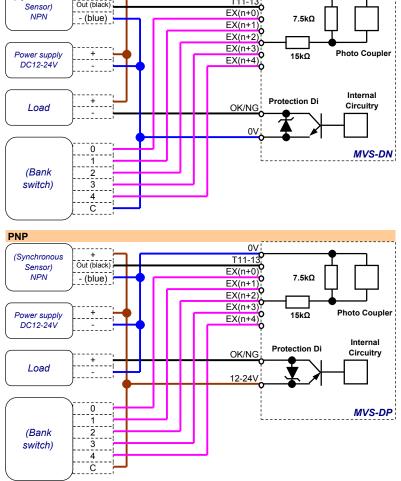
1. Specification

opcomou				
MODEL	MVS-DN/DP			
Supply Voltage	DC 24V ±10%			
	(DC 12V is possible without external Light			
Power consumption	Controller : Max. 80mA / 24V DC			
	With external light: max 1.5A (Light power consumption X 150%)			
	+ Power consumption of all camera heads			
Number of camera	Max. 3 heads			
Output	NPN/PNP open collector Residual voltage is less 1.0V			
	OK, NG: 1 each for every camera head (Total: 6) max. 100mA			
	Auxiliary output: Total 20 Pins max. 50mA			
Input	Synchronous: 3, Auxiliary: 10			
I/O connector	Power/OK/NG/Synchronous : Terminal block 12P			
	Expansion I/O: IEEE1284 half pitch connector 50F			
External Light out	12V PWM control (87kHz, 256steps) Out: 3, Total 24W			
Communication I/F	USB1.1 (max 12Mbps) : USB standard connector			
	RS232 (max 500kbps) : D-Sub 9P			
Display,	4.3" wide TFT LCD, Touchscreen, Panel SW			
Control device	Indicator : Power, Camera No.LEC			
Timer accuracy	-45sec. ~ +1min. 15sec. Per Month (Typical)			
Timer backup	primary cell: 5 year with power off (Typica)			
battery	secondary super capacitor: 7.8 year (Typical with 3 days backup			
Operating Temp./Humid.	0~50°C, 35~85%/RH (Non Condensing			
Storage Temp., Humid	-20~70°C, 25~95%/RH (Non Condensing)			
Vibration, Shock	Vibration : 10∼ 55Hz /1.5mm, Shock : 15G			
Approvals	CE (EN55011 Class-A, EN61000-4-2~6), RoHS			
Material	polycarbonate			
Protection	IP20			
Weight	Approx. 570g			
Attachment	Panel mount bracket			

2. System configuration



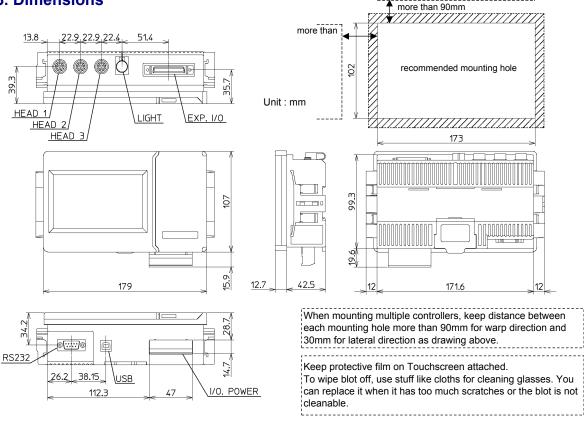
7. Wiring Diagram



12-24V

T11-13

3. Dimensions



4. Accessories

MVS-C2S	2m cable for camera head ~ controlle			
MVS-C5S	5m cable for camera head ~ controlle			
MVS-C5E	5m cable for camera head ~ controller for extensio			
MVS-C2SR	2m cable for camera head ~ controller (flexible typ€			
MVS-C5SR	5m cable for camera head ~ controller (flexible typε			
MVS-C5ER	5m cable for camera head ~ controller for extension (flexible type			
MVS-C5W	5m cable for camera head ~ controller with wiring for light (need MVS-LC05)			
MVS-LC05	50cm cable for light			
MVS-TP	MVS-TP Protective film for Touchscreen (10 pcs			
Other accessories: C/CS mount lens. Light unit. Polarizing filter, e.t.c				

5. I/O Pin assignment

Term	inal bloc	k 12P	
No.	Name	I/O	Details
1	12-24V		+ side of Power supply (DC12-24V), Use DC24 in case using
			Light output.
2	0V		- side of Power supply (DC12-24V
3	OK1	Out	Output of judgment result of camera head No.1, It's ON
			when the result is OK.
4	NG1	Out	Output of judgment result of camera head No.1, It's ON
			when the result is NG.
5	T11	In	Trigger signal for capturing. Connect sensor or PLC for
			synchronization (Originally, it's synchronous trigger for head
			No.1 though, can assign as external teaching input
6	OK2	Out	Output of judgment result of camera head No.2, It's ON
			when the result is OK.
7	NG2	Out	Output of judgment result of camera head No.2, It's ON
			when the result is NG.
8	T12	In	Trigger signal for capturing. Connect sensor or PLC for
			synchronization (Originally, it's synchronous trigger for head
			No.2 though, can assign as external teaching input
9	OK3	Out	Output of judgment result of camera head No.3, It's ON
			when the result is OK.
10	NG3	Out	Output of judgment result of camera head No.3, It's ON
			when the result is NG.
11	T13	In	Trigger signal for capturing. Connect sensor or PLC for
			synchronization (Originally, it's synchronous trigger for head
			No.3 though, can assign as external teaching input
12	0V		Connected to the pin No.2 internally

6. Bank table

Bank	Expansive input Parity					
No.	n	n+1	n+2	n+3	n+4	Failty
0	OFF	OFF	OFF	OFF	OFF	ON
1	ON	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	ON
4	OFF	OFF	ON	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	ON
6	OFF	ON	ON	OFF	OFF	ON
7	ON	ON	ON	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF
9	ON	OFF	OFF	ON	OFF	ON
10	OFF	ON	OFF	ON	OFF	ON
11	ON	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON	OFF	ON
13	ON	OFF	ON	ON	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF
15	ON	ON	ON	ON	OFF	ON
16	OFF	OFF	OFF	OFF	ON	OFF
17	ON	OFF	OFF	OFF	ON	ON
18	OFF	ON	OFF	OFF	ON	ON
19	ON	ON	OFF	OFF	ON	OFF
20	OFF	OFF	ON	OFF	ON	ON
21	ON	OFF	ON	OFF	ON	OFF
22	OFF	ON	ON	OFF	ON	OFF
23	ON	ON	ON	OFF	ON	ON
24	OFF	OFF	OFF	ON	ON	ON
25	ON	OFF	OFF	ON	ON	OFF
26	OFF	ON	OFF	ON	ON	OFF
27	ON	ON	OFF	ON	ON	ON
28	OFF	OFF	ON	ON	ON	OFF
29	ON	OFF	ON	ON	ON	ON
30	OFF	ON	ON	ON	ON	ON
31	ON	ON	ON	ON	ON	OFF

Parity calculation: Inverse of XOR (bit of $n\sim(n+4)$), (When the number of ON bits is odd, the parity is OFF)

Details

An output that shows the

controller is in operation.

inspection result of window

e.t.c. Output No. and number

Same as GND1 and GND2

Connected to 24V internally.

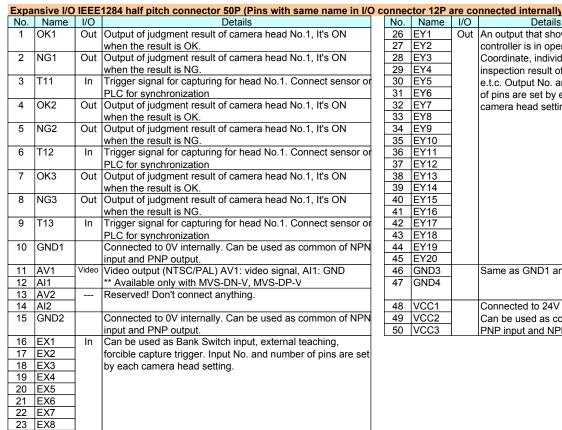
Can be used as common of

PNP input and NPN output.

Coordinate, individual

of pins are set by each

camera head setting.



RS232 D-Sub 9P Male						
No.	Name	T/R	1,4,6,7,8, and 9 pins			
2	TXD	Tns.	are N.C. Connect			
3	RXD	Rec.	same pins to PC.			
5	GND					

25 EX10



No. Name I/O

Out

26 EY1

27 EY2

28 EY3

29 EY4 30 EY5

31 EY6

32 EY7

33 EY8

34 EY9

35 EY10

36 EY11

37 EY12

38 EY13

39 EY14

40 EY15

42 EY17

43 EY18

44 EY19

45 EY20

46 GND3

47 GND4

48 VCC1

49 VCC2

50 VCC3

OPTEX FA CO., LTD. 600-8815 Kyoto Shimogyo-ku Chudoji Awata 93, Japan TEL. +81-(0)75-325-2920 FAX. +81-(0)75-325-2921 http://www.optex-fa.com