

EARTH MOVING EQUIPMENT

Transportation involving all types of vehicles including, constructions, machinery, mining and heavy equipments is rapidly changing industries, Blind spots and restricted views around the peripheral sides of a vehicles as well as the operator cabin are among the major contribution factors. That had resulted in fatalities, damages to property and loss of productivity. A small investment in an integrated vehicle CCTV, Rear view camera and Radar safety system will provide fleet manager and vehicle operator the most advanced and reliable safety and information solutions-ensures safety, better damage control and improve productivity. All these can be achieved via the unique, expanded and enhanced views (Front, Rear and Side View). And better detection of danger spots.



Auto Shutter Rear View system is Best solution for Avoid accident-





 Thunder World Model No-	Rear View monitor For 8VDC to 32VDC Vehicles. TW-7ASWM-TP.
Monitor Size-	7 inches sunshade Digital Screen TFT LCD Colour Monitor.
Type-	IPS monitor For Tempo, Commercial Vehicle/ Bus, Mining Vehicle /off-road vehicle.
Auto Select View-	It's trigger system monitor. For camera1 camera2 camera3.
Support Video input-	4Pin Auto shutter rear view camera-1, RCA-for Cam 2 & 3.
RGB Input-	Resolution 800 X 480= 3,84,000 Min.
Active Area(mm)	153.60mm X 86.64mm
View Angle-	Up- 70 degree ,Down-70 degree,Left-60 degree, Right- 60 degree
PAL/NTSC-	Auto selectable or Optional.
Back Light-	LED back light- Tested for 100000 Hrs.LED vibration proof slots.
Response Time-	0.02ms-Refresh Time.
Working Power-	Very wide input voltage range -8VDC To 32VDC.
Contrast Ration-	500:1.
Luminance(nits)-	350.
Audio output-	1watts. Loudspeaker ø4.0cm, 16Ω/1W.
Power consumption-	12VDC or 24VDC- 6watts.
Voltage protection-	High -Low, Short circuits and Polarity protection.
Selectable camera-	Select camera manually by monitor button or remote button.
Connect Plug-	9/13pins S-VIDEO.
CSD indicator-	Sensor for controlling auto -Brightness and Contrast.
Delay program	Selectable delay program- 0 to 5 sec.
Features-	Direct supply for Auto shutter Rear camera from monitor.
Three Channel Input-	Three channel video CVBS input.
Image setup-	Normal and Mirror Image setup.
Auto/manual selector-	You can select auto or manual mode when monitor is in sleeping mode.
Low power design-	Monitor is design for low power and energy saving concept.
Brightness sensor-	The brightness will be adjusted according to the surrounding.
Keys-	Keys made from heavy duty material with LED light. And adjust according to surrounding intensity.
Shock Resistance-	Double PCB design, vibration and shock proof up to 10G.
Operation-	Operation with full functional remote and manual by monitor Keys.
Monitor shell-	Monitor cabinet or shell made from high class ABS plastic material-Resisting high temperature and blast.
LED Lights indicator-	Green light-Start up, Red light Sleeping Mode.

Colour TFT LED LCD POS monitor.



1	Mounting Bracket-Made for 10G shock proof with intelligent mounting slot.
2	For bulk order we will place your brand name or Logo.
3	CDS-Sensor-controlling button backlight and Auto LCD backlight.
4	Power ON/OFF button-For open or close related cameras.
5	Camera switch-Select manually camera- CAMERA 1, CAMERA 2, CAMERA 3.
6	UP-Select up OSD Menu and other related feature i.e. Time, Resolution.
7	Down-Select up OSD Menu and other related feature i.e. Time, Resolution.
8	OSD Menu-Button-i.e-Brightness, contrast, camera Delay time many more...
9	Increase Volume-Of cameras mic / DVD or mobile DVR. Added other features.
10	Decrease Volume-Of cameras mic / DVD or mobile DVR. Added other features.
11	Remote signal receiver hi sensitive photo sensor-with wide angle lens.
12	Bracket 45 degree left and 45 degree right mounting slot.
13	Holding knob & adjust monitor Up & down upto 45 degree up & 45 degree down.
14	For clear view - Sunshade protection-protect from direct sunlight.
15	Brand new Hitachi-7" LED LCD monitor-Viewable under sunlight condition.



Thunder World- Model No-TWCCDAS12IR-01	Autoshutter Rear View Camera.
Image sensor	Type 1/ 3" COLOR CCD SENSOR
Image Device:	Samsung/sharp/Hitachi/Sony as per end client requirement
TV System:	PAL / NTSC
Effective Pixels:	512 x 582 pixels / 512 x 492 pixels
Sensing Area:	4.9mm x 3.7mm
Scanning System:	2:1Interlace
Sync. System:	Internal
Resolution:	480TV lines
Horizontal Sync. Frequency:	15.625KHz / 15.734KHz
Vertical Sync. Frequency:	50Hz / 60Hz
Minimum Illumination:	0 Lux/F1.2 with IR
Microphone:	Optional
Video Output:	1.0vp-p, 75Ohm
Gamma Consumption:	0.45
AGC:	Auto
S/N Ratio:	Better than 48dB
White Balance:	Auto
Electronic Shutter:	1/60 (NTSC) / 1/50 (PAL) ~ 1/10,000 Seconds
BLC:	Auto
Current Consumption:	Max. 430mA
Power Supply:	DC12V /24VDC- 11VDC To 32VDC
Operating Temperature:	-20°C~70°C, RH95% MAX
Storage Temperature:	-40°C~80°C, RH95% MAX
Lens:	f=3.6mm / 2.8mm F = 2.0
Lens Angle:	130 degree diagonal.
Exterior paint:	Shock proof/anti rusty.



7" Rear View System for Off-Road vehicles.

