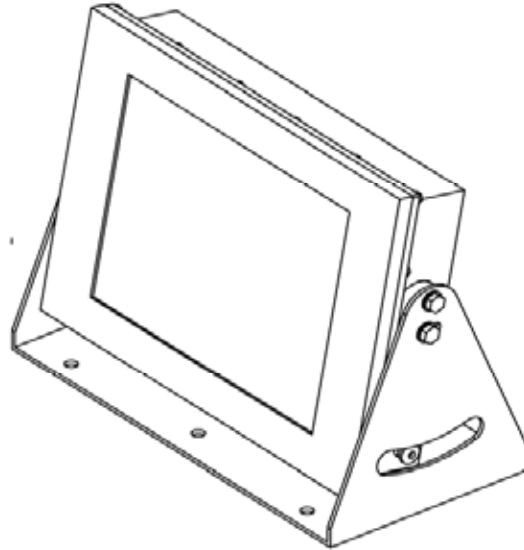




VEILUX
The Art of Surveillance

Ex-marking: Exd BT6

Ex-certificate: Sira 07ATEX1106X



SVEX-151 EXPLOSION PROOF MONITOR



SAFETY NOTES

BEFORE INSTALLATION, PLEASE DO CAREFULLY READ THIS MANUALBOOK..

- Please install under manual required atmosphere.
- To make sure the installation position is stable and safe in case any damage to camera.
- To make sure all powers same as the requirements on the nameplates before camera power on.
- Do not open camera body under too much humidity, otherwise the humid air getting into camera inside cannot easily vaporize because of good sealing of camera flameproof, and this humidity may damage camera spare parts and damage picture quality of camera.
- Please connect cables correctly according to the Manual book.
- Please shut off the power before repair maintenance camera.
- Pay attention to protecting the flameproof surface of camera while install or un-install camera.

Welcome to call VEILUX for any help

TEL: 214-635-4855

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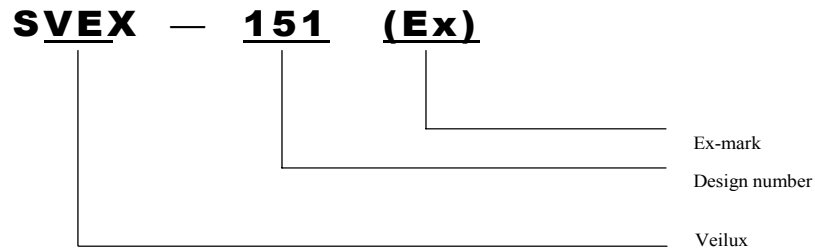
1. INTRODUCTION

This SVEX-151 Explosion-proof Monitor as a new monitoring equipment has changed the situation that terminal monitor could only be put in control room, it also can be used in flammable and explosive environment, supplying a much clearer monitoring picture for customers, which advances the flexibility of system collocation greatly. SVEX-151 adopts advanced production techniques and matured quality management system to make its quality, performance and appearance a leading position in explosion proof monitoring products. This monitor owns advantage of small volume, light weight and easy installation features,

SVEX-151 is strictly according to European Directive EC/94/9 and EN50014, Standards of GB3836.1-2000 GB3836.1—2000 Electrical apparatus for explosive atmosphere: General requirements, GB3836.2-2000 Electrical apparatus for explosive atmosphere: Flameproof 'd' and GB12476.1-2000 Electrical apparatus for explosive dust: Using enclosure and limiting surface temperature for protecting electrical apparatus Chapter 1: Technical requirements, the monitor housing is made of stainless steel, IP65 enclosure rating and this monitor could be widely used in petroleum, chemical industry, jetty, port, mine, space, army and foodstuff area. High performance LCD screen is installed inside, supplying the resolution of 1024 x 768 which could show the picture sharply; the quick response time could show the moving picture excellently; TCO'03 guarantees the maximal security and human engineering standard.

2. TECHNICAL DATA

2.1 Type Code



2.2 Certificate

Ex-marking	Exd BT6
Certificate Number	Sira 07ATEX1106X

2.3 Electrical

Input Voltage	100~240VAC, 50/60Hz
Power Consumption	24 W
Electric Connection	
Power	3-core cable for power
Video Input:	VGA, BNC or both

2.4 Technical specification

Screen	15.1inches (38.1cm) , TFT
Color	16,770,000
Point distance	0.297mm
View Distance	304.1mm (w) x 228.1mm (h)
Contrast	500: 1
Brightness	300cd / m2
Pan Horizon	140° (CR>5)
Tilt Horizon	140° (CR>5)
Response Time	16ms
Pan refreshing rate	38~60 KHz
Tilt refreshing rate	56~75Hz
Bandwidth	80MHz
Optimum Resolution	1024 x 768

2.5 Mechanical

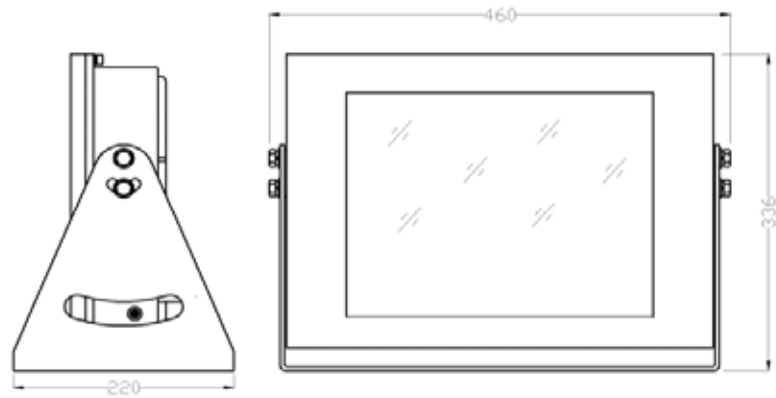
Protection	IP65
Construction	Stainless Steel 1Cr18Ni9Ti
Weight	25Kg

Dimensions	351(H) x 426(W) x 200(D) mm
Lens Dimensions	305 x 230 mm
Glass Thickness	12mm
Inner Dimension	3L
Cable Outlet	2
Outlet Type	G-3/4"

2.6 Environmental

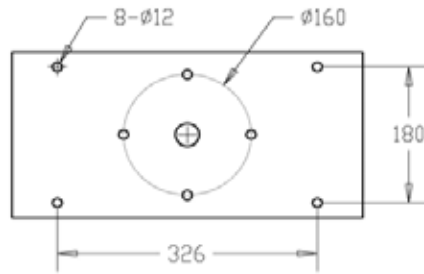
Air Pressure	86~106KPa
Environment Temperature	
Working	0 ~+50
Storage	-20 ~+60
Relative Humidity	≤95%RH(+25)

2.7 Dimensions



P1. SVEX-151 External Size

2.8 Installation Dimensions

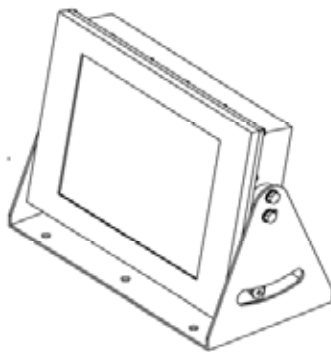


P2. Fixed holes in the bottom

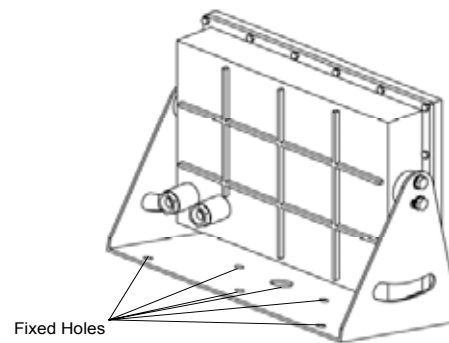
3. MOUNTING

3.1 Desktop Mounting

SVEX-151(Ex) monitor can be put on the desktop or fixed with screws.

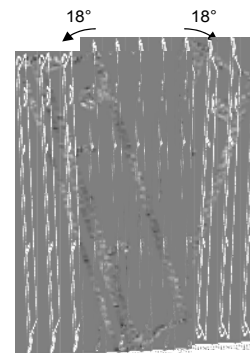


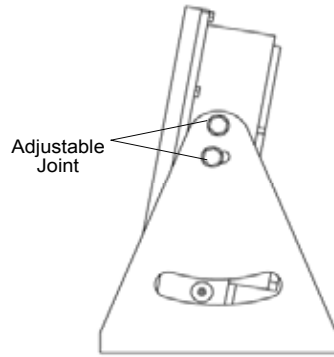
P3. Desktop Installation



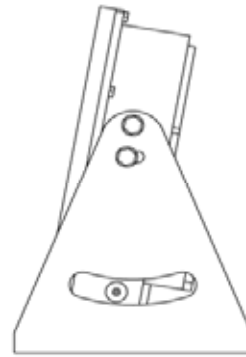
P4. Fixed By Screws

±18° view angle is adjustable





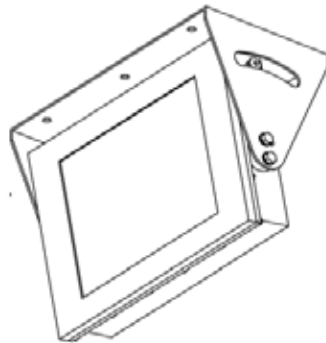
P5. Adjustable Screws



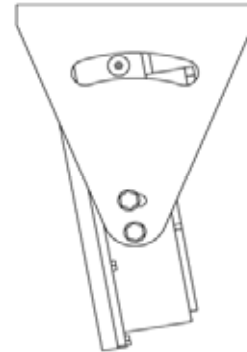
P6. Angle Adjustment

3.2 Ceiling Mounting

The base can be mounted on the ceiling and reverse the video by the software.



P7. Ceiling Mounting



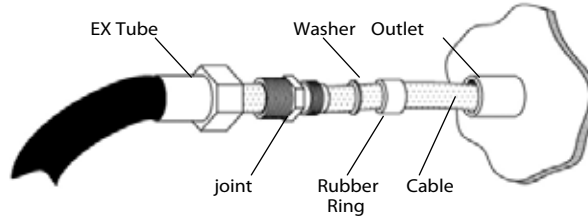
P8. Angle Adjustment

3.3 Cable Treatment

While monitor leaves factory, we supply a power cable and a VGA signal cable (BNC cable). Before using, a Ex-proof Flexible Tube should be prepared in order to make it explosion proof.

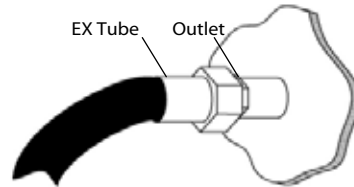
3.3.1 Ex-Proof Flexible Tube

- a. As picture 9, remove the Tighten Nut at the back of screen. Loose the screw connection head of Ex-proof flexible tube for standby.



P9.

b. As P10, tighten the screw joint and tighten the EX tube.



P10.

3.3.2 Power Cable Connection

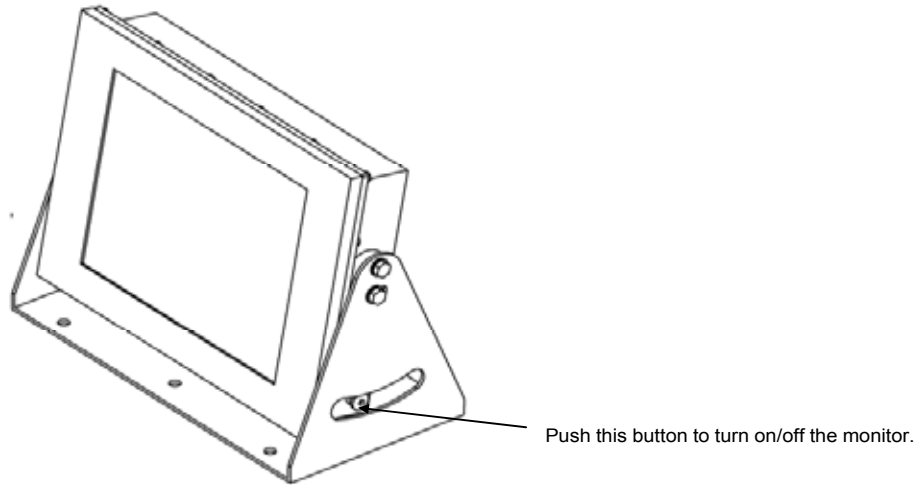
The power cable is 3-core. While using, an ex-proof junction box should be equipped. Connect the cables inside of the junction box. The color definition of cables is as follows:

Table1. Cable Definition

Name	Power cable	
Function	Live wire	Neutral wire
Color	Red	Black

4. APPLICATION

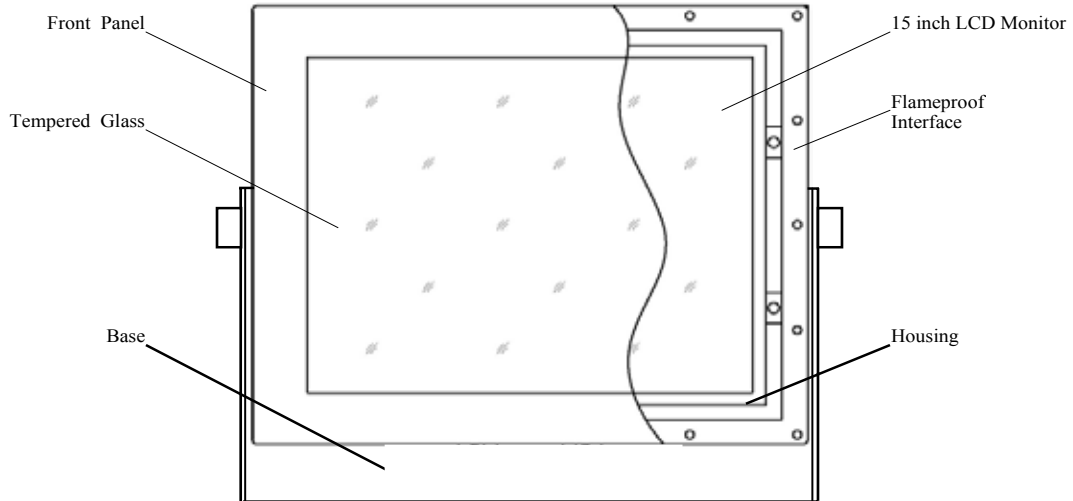
4.1 Power On/Off



P11. Location of Power Button

5. FLAMEPROOF STRUCTURE

- Completely consider the explosive air getting into ex-proof structure, which may lead to explosion because of some reason and to confirm and ensure camera explosion proof performance based on its structure gap, length and max temperature it will get to.
- Enclosure shall burden water pressure testing for 1.0Mpa for 10~12 seconds without leakage as pass, which is ordered in GB3836.2-2000.
- Camera surface temperature max shall not over 80 while it is working.
- Cable for Monitor uses inlaid device to tighten its screw and nut.
- Monitor window glass adopts steel glass to burden Impact and Heat change testing.



P12. Flameproof Joint interface

6. TROUBLE SHOOTING

Problems	Reason	Method	Remark
No image	Power off	Change fuse	Self-done
		Check power cable	Self-done
	Signal off	Check signal cable and plug	Self-done
Interfere for picture	Signal wire broke	Check signal cable	Self-done
	Interfere of wire	Search for interfere	Self-done
Color error	Bad connection of plug	Check plug and socket	Self-done

7. SHIPMENT AND STORAGE

After package, without rain or snow fall directly to product, shipment could do by air or sea and store for one year under the environment of -20 ~+60 , humidity >90%.

8. GUARANTEE

For any camera produced by VEILUX, we promise half-year to change and one year to repair.

During Guarantee period, we supply free service except following situations:

- User does not operate as manual book requires
- User un-install the whole product by themselves
- Lightning or Act of God

If there are additional agreements between VEILUX and buyer, then agreements shall be strictly done

9. STATEMENT

- VEILUX owns the final design changing and final specification rights and no responsibility to inform user
- This manual book belongs to VEILUX rights, without permits or any book inform, any company or private copy of whole or part of the book shall be prohibited.



VEILUX

802 Greenview Dr. Ste 200
Grand Prairie, TX 75050
Tel: 214-635-4855
Toll Free: 1 (800) 510-6528
Fax: 214-988-2858