



Digital Display Company

15" Waterproof LCD Digital TV (European Model)

Model: NGLT150WPD

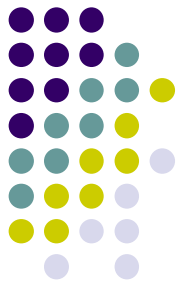
Bathroom, On the Boat, Outdoor Plant, Steam Room, SPA, Rainproof Application
Inputs: PC (VGA), Composite Video Input, S-VHS & European Digital DVB-T
TV Tuner



Waterproof IP67 LCD TV

April, 2008

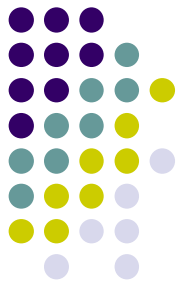
www.nanovdisplay.com



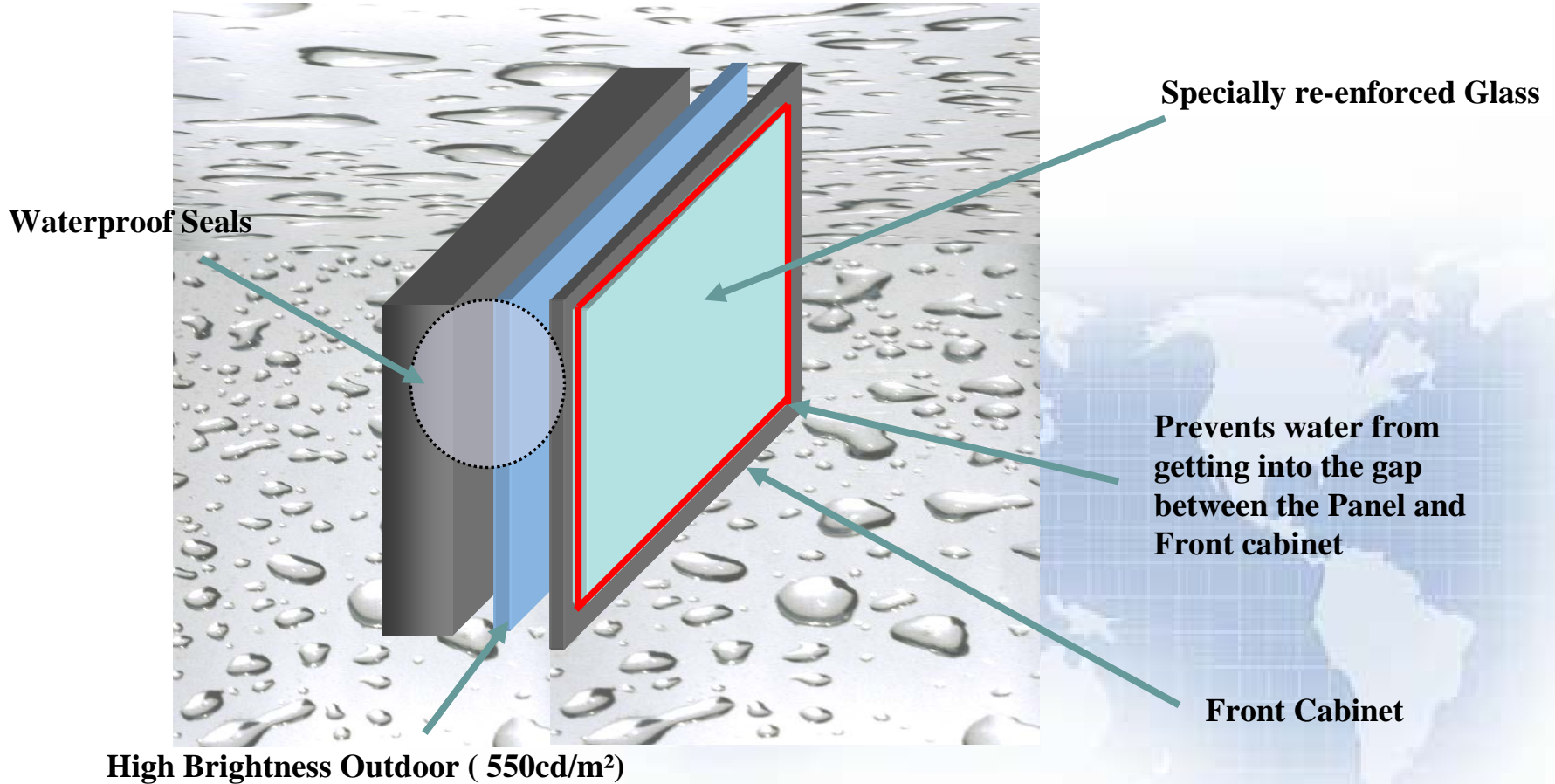
The world's *First Underwater IP67 Water Proof Digital LCD TV* for the Marine, Bathroom and SPA Industry

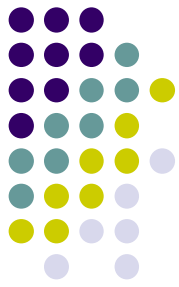
Features

1. **IP Grade: IP67 (Tested to work 3 ft underwater for 30 minutes)**
2. **Brightness: High Brightness 550 cd/m²**
3. **12VDC with 120VAC Adapter**
4. **Tested and works inside a Steam Room**
5. **Back Cover: Aluminum to transfer heat and protect humidity**
6. **Specially treated waterproof glass to protect against scratches**
7. **Front Touch Buttons**
8. **Floating *water resistant* IT Remote Control**



Front Cover - Waterproof & High Brightness Panel



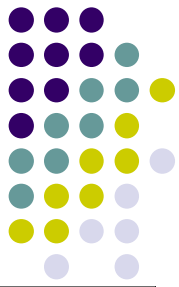


Features (NGLT150WPD)

Waterproof LCD for Ship and SPA builders

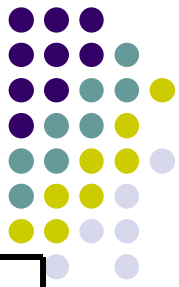
| S.No. | Feature | Final Product |
|-------|-------------------------|--|
| 1 | Panel & Brightness | 15" LCD Panel, 550 cd/m ² |
| 2 | IP Grade | IP67, Protection against dust and water (Immersion) |
| 3 | Front Glass | re-enforced glass with touch screen function |
| 4 | Audio Out | 1W x 1W Audio Out |
| 5 | Button Switch | Touch Screen |
| 6 | PC Board & Connector | PC Board : Non-Conformal Coating , Connectors : Heavy Duty, O-Ring Waterproof connectors Two Meter Connectors Included *** All connectors should be tightened for waterproof. |
| 7 | In/Out Jacks | Extension Wire type. |
| 8 | Cabinet & Vent | Front : Specially treated glass Back : Aluminum - to transfer heat from the inside and protect against salt corrosion. |
| 9 | TV Tuner, Picture Ratio | ATSC Digital TV-Tuner, 4:3 |
| 10 | Remote Control | IR LED Module, Water Floating Design, Universal remote control can be programmed |
| 11 | Picture Color | Natural Color Advanced Technology Adapted + 3D Comb Filter |
| 12 | Language | English, Spanish, French |
| 13 | Unit Weight/Dimension | 13lbs, 14.7" x 13" x 2.26" |

* Disclaimer: Our device is intended for use in the moist, humid and wet environmental condition. It is recommended to put the unit in an area which has shade to protect from direct sunlight. Do not use or place the unit under extensive or direct sunlight as it would cause the liquid in the panel to overheat.



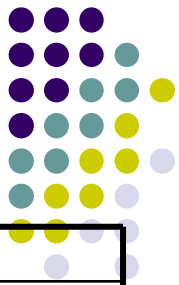
Waterproof IP Grade in accordance with IEC 529

| 1 st Identity Number | Production Category (Contact & Foreign Object Production) | 2 nd Identity Number | Protection Category (Water Protection) |
|---------------------------------|---|---------------------------------|--|
| 0 | No special protection | 0 | No special protection |
| 1 | Protection against the entry of solid foreign object, having a diameter larger than 50 mm. | 1 | Protection against vertically falling drip water. No harmful effects are allowed. (drip water). |
| 2 | Protection against the entry of solid foreign object, having a diameter larger than 12 mm. Protection for fingers and similar objects. | 2 | Protection against vertically falling drip water. When the enclosure is tipped up to an angle of 15 degree from its normal position. |
| 3 | Protection against the entry of solid foreign object, having a diameter larger than 2.5 mm. Protection for tools, wires, or similar objects which are thicker than 2.5 mm. | 3 | Protection against drip water that falls at an angle of up to 60 degree vertically. |
| 4 | Protection against the entry of solid foreign object, having a diameter larger than 1.0 mm. Protection for tools, wires, or similar objects which are thicker than 1.0 mm. | 4 | Protection against water which sprays against the equipment from all directions. No harmful effects are allowed (spray water). |
| 5 | Protection against harmful dust deposits. Complete contact protection. | 5 | Protection against water from a hose which is directed on the enclosure from all directions. No harmful effects are allowed (hose directed w.). |
| 6 | Protection against the entry of dust (dust proof). Complete contact protection. | 6 | Protection against strong seas or strong water jets. |
| | | 7 | Protection against water. (Immersion) |
| | | 8 | Protection against water. (Submersion) |



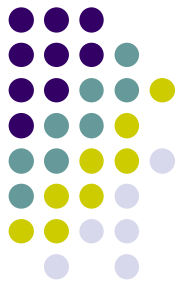
Specifications

| | Contents | Specifications | |
|----------------|--|-------------------------------|---------------------------------|
| Panel | Panel | 15", LC150X02 | |
| | Display area | 408 x 306mm | |
| | Display Color | 16,777,216 color combinations | |
| | Pixel Pitch | 0.297(H)mm x 0.297(V)mm | |
| | Resolution | 1024 x 768 | |
| | Contrast Ratio | 400 : 1 | |
| | Brightness | 550 cd/m2 | |
| | Response Time | Rise Time | 5 ms |
| | | Decay Time | 11 ms |
| | Viewing Angle | | 130° Horizontal / 100° Vertical |
| | Physical Rotation | | + 20 degree, - 5 degree up/down |
| | Panel Interface | | LVDS |
| Feature | Dimming (Back light control by Remote control) | Yes (Mode1. Mode2.....) | |
| | On/Off Timer | Yes | |
| | No Signal Mute / Auto Power off | Yes | |
| | On Screen Display | Yes | |
| | Multi-language OSD | English, Spanish, French | |
| | Auto Search Memory | Yes | |
| | Selectable Picture / Sound | Yes | |



Specifications (continued)

| | Contents | | Specifications |
|---------------|--------------------|---|--------------------------------------|
| System | Tuning System | Tuner | DVB-T TV Tuner |
| | | Receiving Channel | 54MHz ~ 803MHz |
| | | Intermediate Frequency: (Digital Center) | 44 Mhz |
| | | Analog (P-carrier) | 45.75 Mhz |
| | | System | PLL System |
| | Antenna Input | NTSC | Yes |
| | | DVB-T TV Tuner | Yes |
| | Video Input | Composite | Yes, RCA |
| | | S-Video(Y/C) | Yes |
| | | PC Analog | Yes |
| | Caption And V-Chip | | Yes |
| | Sound System | MTS | Yes |
| | | Standard Model | Standard, Music, Movie, Speech, User |
| Audio Output | | 1W x 1W | |
| Jacks | Composite Input | Video Input | Yes (RCA jack) |
| | | S-Video Input | Yes (Din Jack) |
| | | Audio Input | Yes (RCA Jack) |
| | Audio Line Out | | 450mV + / - 50mV |



Specifications (continued..)

| Others | Contents | | Specifications |
|---------------|---------------------------|--|----------------------------------|
| | Power Supply | | DC 12V, 3A |
| | Power Consumption (Watts) | | Stand-by : 1.8W / Power On : 45W |
| | Audio Power | | 1W x 1W |
| | Coating Level | | IP – 67 |
| | Accessories | User's Manual, Adapter, Power Cable, Remote Control, Warranty Card | |
| | Regulation | Safety | NRTL, TUV, CE |
| | | EMI | FCC |
| | Dimensions | 14.7" x 13" x 2.26" | |
| | Weight | Gross | 13 lbs |



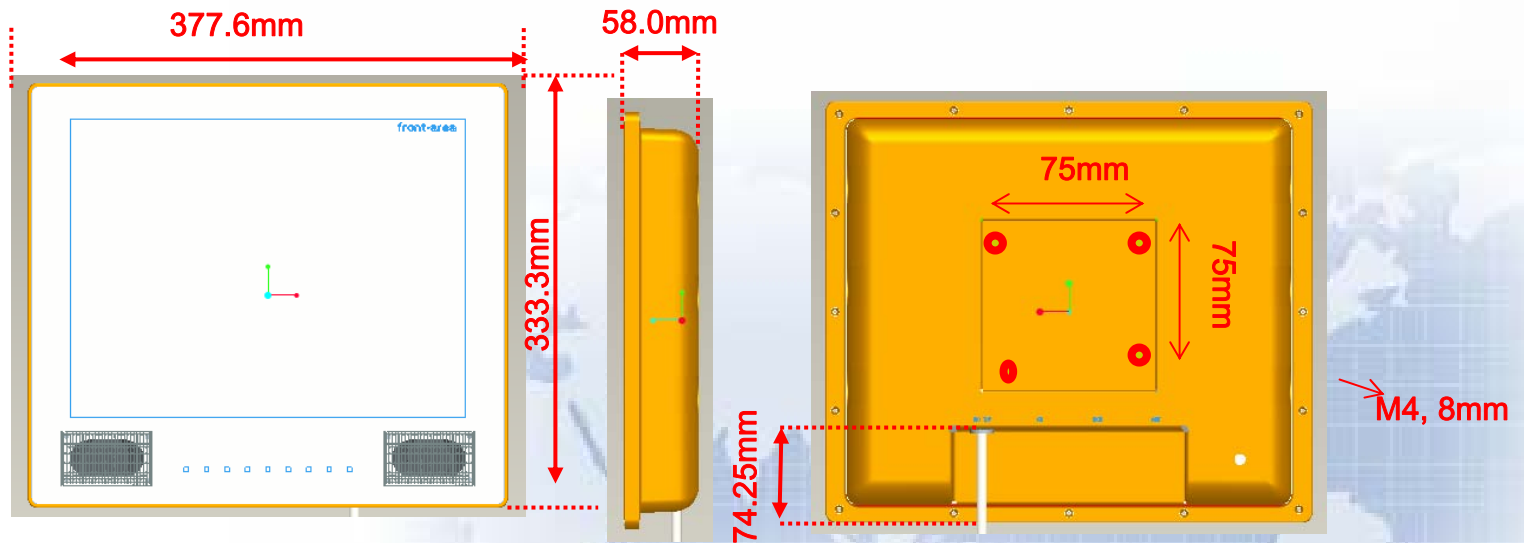
Waterproof Connectors (Reference)



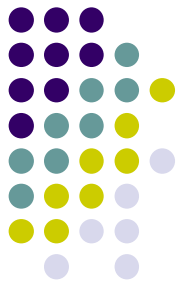
NGLT150WPD Watertight Back Connectors.



MECHANICAL DRAWING (NGLT150WPD)



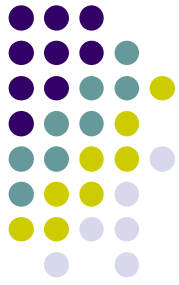
| Width (inside) | Height (Inside) | Depth (inside) | Width (Inputs) |
|----------------|-----------------|----------------|----------------|
| 377.6mm | 333.3mm | 58.0mm | 74.25mm |



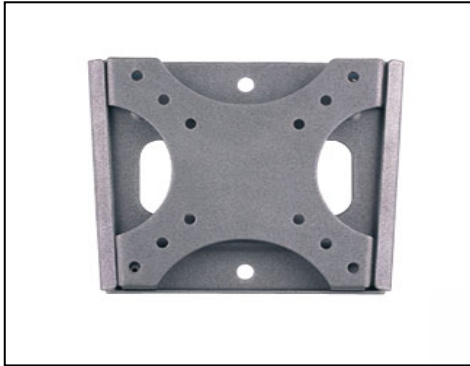
Yacht & SPA Video Application with Waterproof Speakers, Amplifier and DVD Player



Optional Accessories



Wall Mount Brackets



Model: NML123

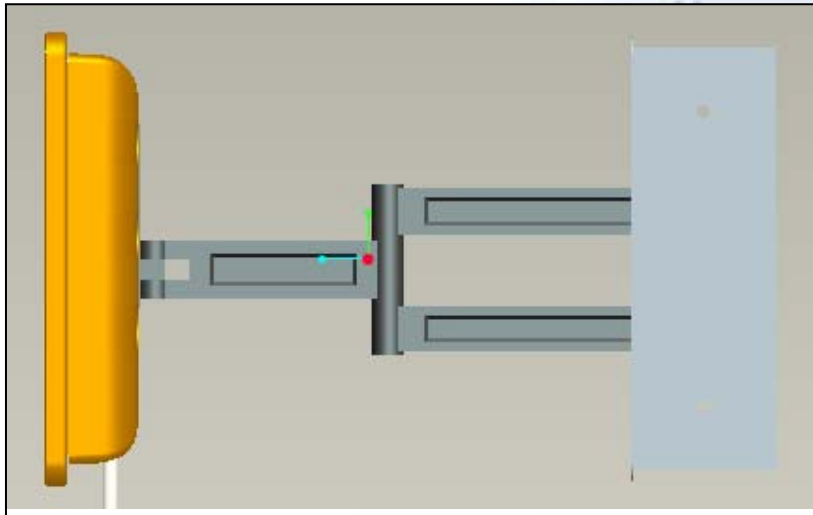
Water Resistant Flush
Wall Mount



Model: NML12B

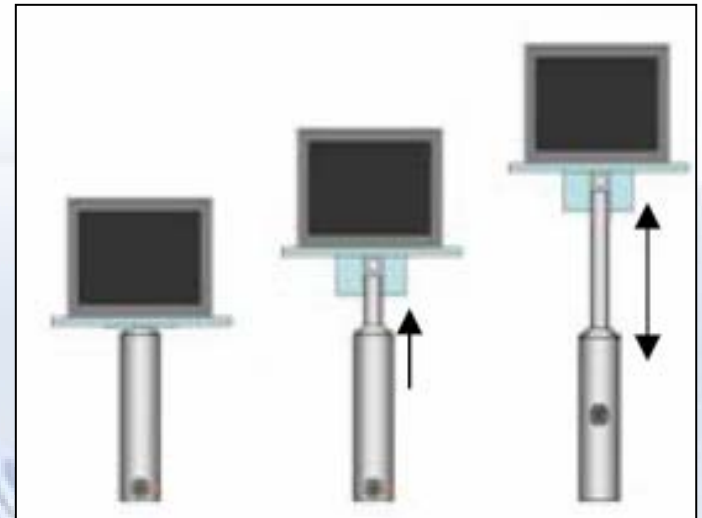
Water Resistant Adjustable
Wall Mount

15", Enclosure with Arm Mount



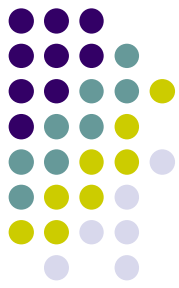
Model: NGLT150ENC

OEM Electric Lift



Model: NKLT100LFT

Marine Grade VESA 100mm
Electric Lift



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