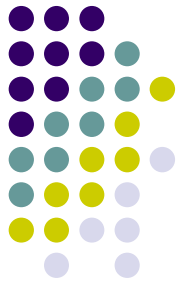


Waterproof LCD for Ship and Spa builders

20.1" Waterproof Outdoor LCD TV
(IP67, 1000CD/m², 1200 Nit)
Model: NKLT201DGWP



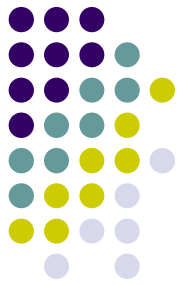
March, 2007
www.nanovdisplay.com



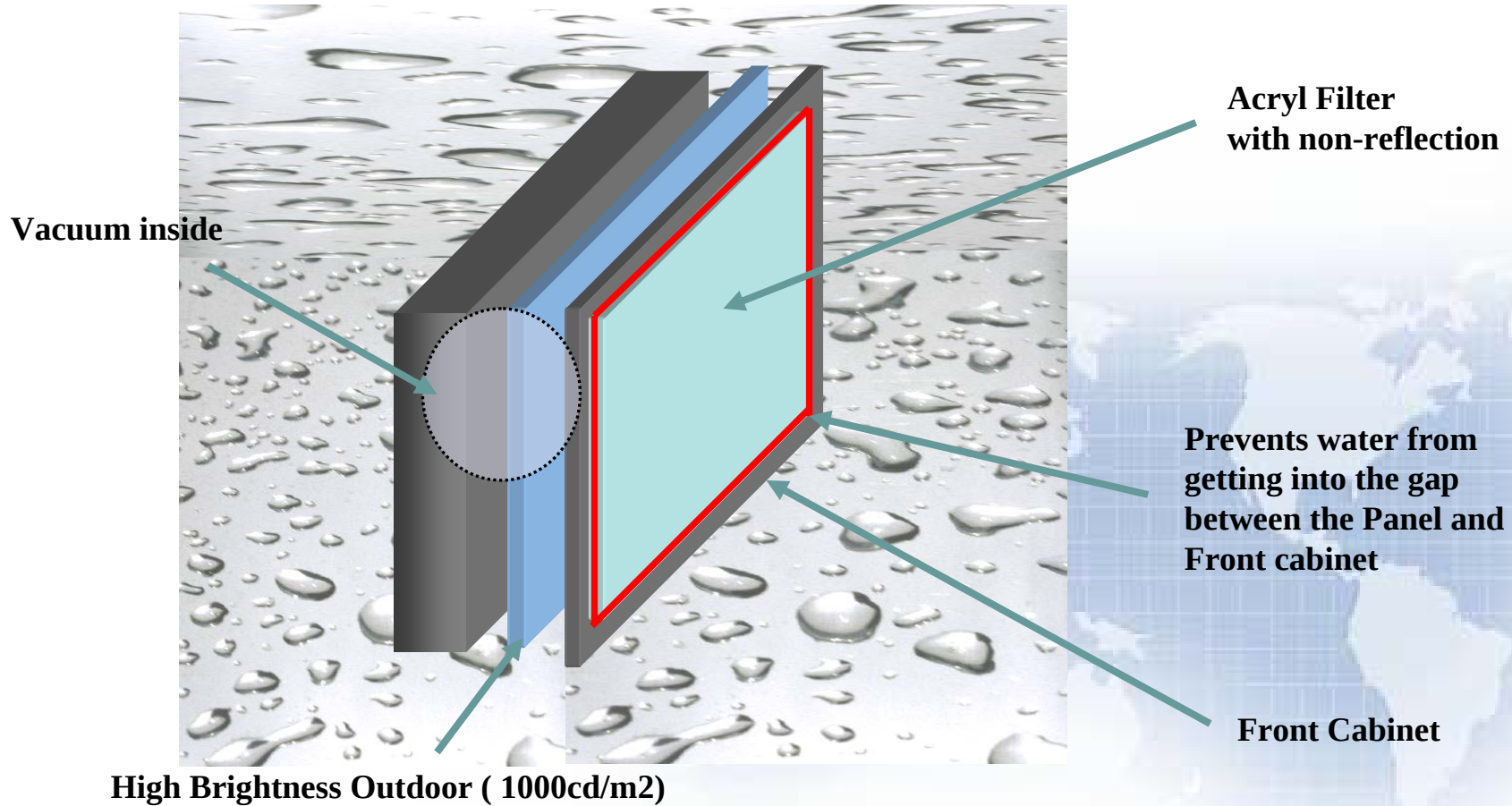
The world's *First Marine IP67 Water Proof
Outdoor LCD TV's* for the Marine and SPA Industry

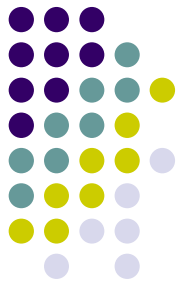
Features

1. **IP Grade: IP67**
2. **Brightness: High Brightness 1000 cd/m2**
3. **Back Cover: Aluminum to transfer heat and protect humidity**
4. **Poly carbonate filter to protect scratches**
5. **Front Touch Buttons**
6. **Floating water resistant RF Remote Control**

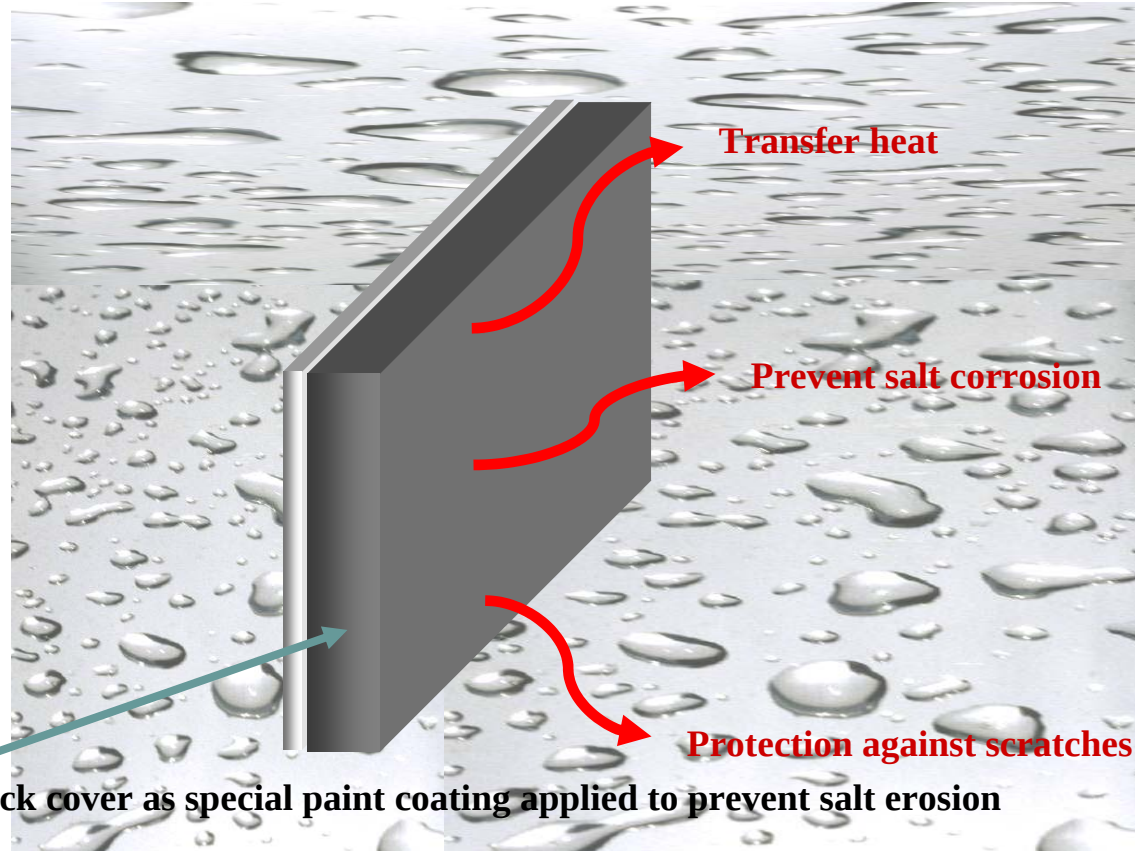


Front Cover - Waterproof & High Brightness Panel

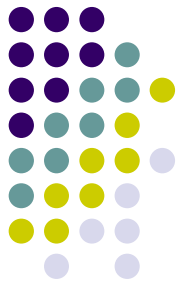




Back Cover - Waterproof Heat Sink

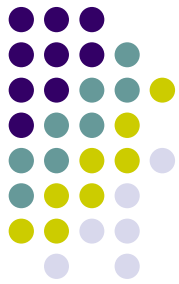


Aluminum Back cover as special paint coating applied to prevent salt erosion



Waterproof & Floating RF Remote control

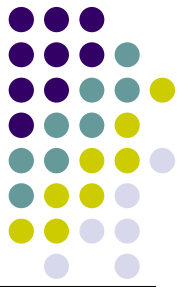




Features (NKLT201DGWP)

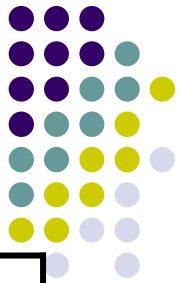
Waterproof LCD for Shipbuilders and SPA builders

S.No.	Feature	Final Product
1	Panel & Brightness	LPL Panel, 1000cd
2	IP Grade	IP67, Protection against dust and water (Immersion)
3	Front Filter	PC Acryl Filter(1.5~2.0t), Non-Reflection
4	Audio Out (No Speaker)	1W x 1W Audio Out, No speakers (OEM waterproof speaker Option available)
5	Button Switch	A Membrane Switch type - Waterproof
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 : White Color Poly Acryl(PC) Back : Aluminum - to transfer heat from the inside and protect against salt corrosion.
9	TV Tuner, Picture Ratio	ATSC/NTSC, European PAL version: Available, 4:3
10	Remote Control	Radio Frequency Module, Water Floating Design
11	Picture Color	Natural Color Advanced Technology Adapted + 3D Comb Filter
12	Language	English, Spanish, French
13	Unit Weight/Dimension	14lbs, 19.75" x 16.5" x 2.5"
* 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.		



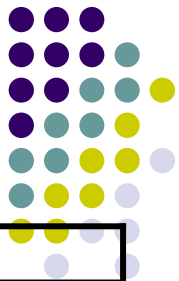
Waterproof IP Grade in accordance with IEC 529

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)



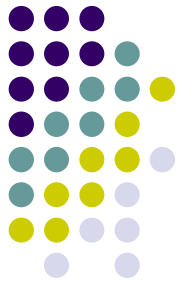
Specifications

	Contents		Specifications
Panel	Panel		20.1 ", LC201V02 SD-B1
	Display area		408 x 306mm
	Display Color		16,777,216 color combinations
	Pixel Pitch		0.6375(H)mm x 0.6375(V) mm x RGB
	Resolution		640 x RGB x 480
	Contrast Ratio		800 : 1
	Brightness		1000 cd/m2
	Response Time	Rise Time	12 ms
		Decay Time	13 ms
	Viewing Angle		178 degrees Horizontal / 178 degrees vertical
	Physical Rotation		+ 20 degree, - 5 degree up/down
	Panel Interface		TTL
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



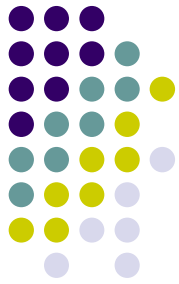
Specifications (continued)

System	Contents		Specifications
System	Tuning System	Tuner	ATSC/NTSC
		Tuning Range : VHF LOW	54Mhz – 803Mhz
		Internal Frequency: (Digital Center)	44 Mhz
		Analog (P-carrier)	45.75 Mhz
		System	PLL System
	Antenna Input	NTSC	Yes
		ATSC	Yes
	Video Input	Composite	Yes, RCA
		S-Video(Y/C)	Yes
		Component	Yes
		PC Analog	Yes
	Caption And V-Chip		Yes
	Sound System	MTS	Yes
		Standard Model	Standard, Music, Movie, Speech, User
	AUdio Output		3W x 3W
Jacks	Composite Input	Video Input	Yes (RCA jack)
		S-Video Input	Yes (Din Jack)
		Audio Input	Yes (RCA Jack)
	Audio Line Out		450mV + / - 50mV

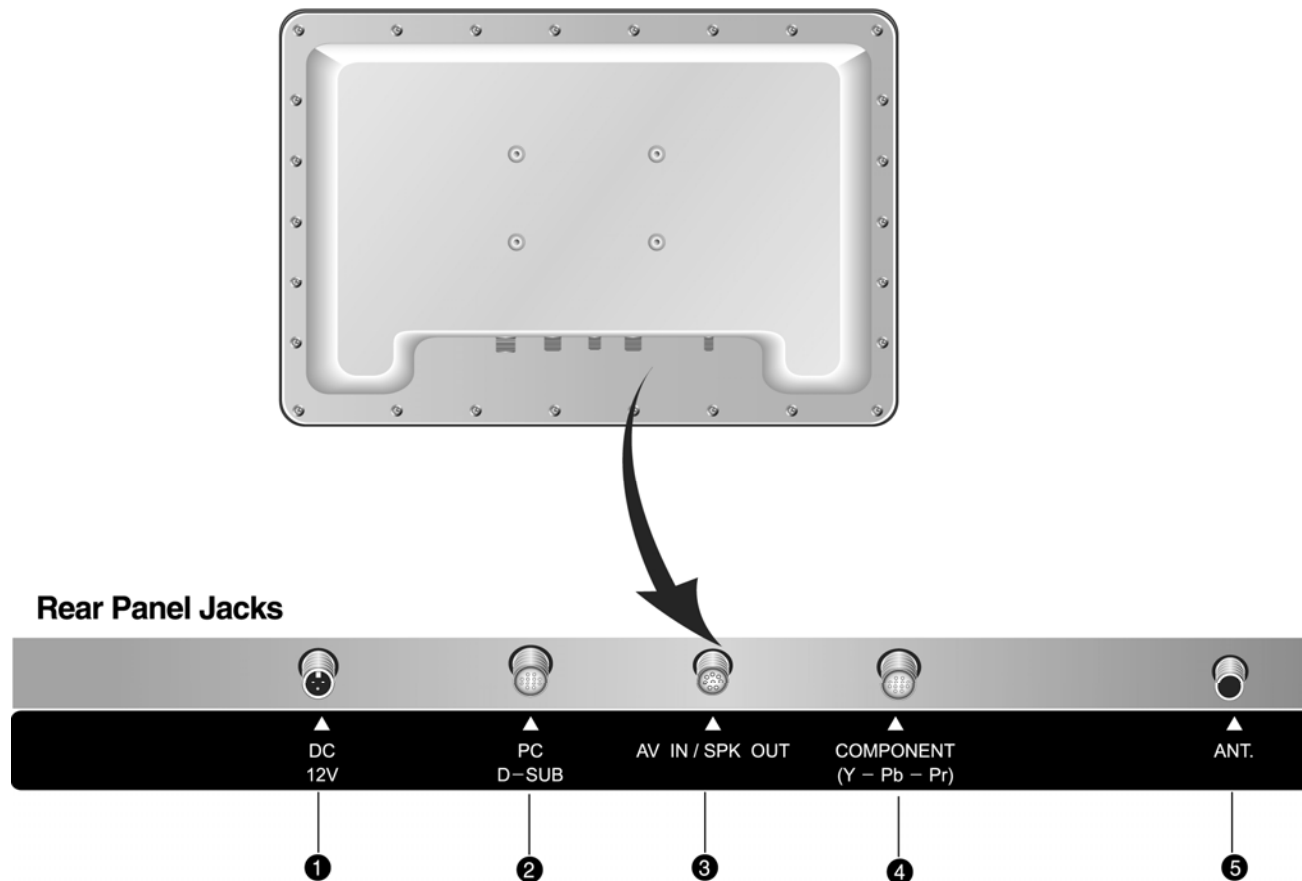


Specifications (continued..)

Others	Contents		Specifications
	Power Supply		DC 12V, 8.33A
	Power Consumption (Watts)		Stand-by : 3W / Power On : 90W
	Audio Power		3W x 3W
	Coating Level		IP – 56
	Accessories	User's Manual, Adapter, Power Cable, Batteries, Remote Control	
	Regulation	Safety	FCC
		EMI	FCC
	Dimension (W x H x D)	Unit (without stand)	496 * 405 * 65 mm
		Box	573 * 582 * 300 mm
	Weight	Net (without stand)	6.7 kg
		Gross	10.5 kg
	Stuffing Quantity	40 FT	798 sets
		20 FT	378 sets



Waterproof Connectors(Reference)





Underwater TV Test, Miami, Florida, Feb, 2007