
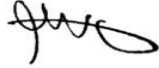


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## Model Name : MTR-3240TA

ISSUED DEPT. 입안 부서	PREPARED BY 입안자	REVIEWED BY 심 의 자	APPROVED BY 승인자
R&D CENTER 연구소	Mun-Su, Choi 최문수		Han-Joo, Bae 배한주
			
	2018.11.28		2018.11.28
배 포 처	디스플레이연구소, 생산경영팀, 영업팀		



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## 1. Application (적용 범위)

This specification applies to Orion's MTR-3240TA product with 32" FHD LCD Panel and P-CAP Touch Screen.

본 사양서는 32" FHD LCD 패널과 P-CAP Touch Screen 를 적용한 오리온의 MTR-3240TA 제품에 적용됩니다.

## 2. Summary (개요)

MTR-3240TA is FHD(Full High Definition) LCD monitor. This model supports a variety of input sources such as HDMI, DVI and VGA(RGB), and provides various resolution screens up to FHD resolution — 1920x1080@60Hz. In addition, P-CAP touch screen application is applied to MTR-3240TA, so it can provide a 10points-multi-touch environment to user.

MTR-3240TA 은 FHD LCD 모니터입니다. 이 모델은 HDMI, DVI, VGA(RGB)와 같이 여러 개의 입력 소스를 지원하며, FHD 해상도까지(1920x1080@60Hz) 다양한 해상도를 제공합니다. 또한, MTR-3240TA 은 P-CAP 터치 스크린을 적용하여 유저들에게 멀티 터치(10 포인트) 환경을 제공할 수 있습니다.

## 3. Environmental Conditions(환경 조건)

Item 항목	Operating Condition 동작 조건		Storage Condition 보관 조건	
	Maximum 최대	Recommend 권장	Maximum 최대	Recommend 권장
Temperature 온도	0 ~ 50 °C	5 ~ 35 °C	-20 ~ 60 °C	0 ~ 40 °C
Humidity 습도	10 ~ 90 %RH	35 ~ 75 %RH	10 ~ 90 %RH	15 ~ 80 %RH

※ If the condition exceeds maximum ratings, it can cause malfunction or unrecoverable damage to the device.

※최대 환경 조건을 초과하면 제품이 제대로 동작하지 않거나 수리가 불가능 할 수 있습니다.

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#### 4. General Information(일반적인 정보)

PRRDUCT NAME 제품명		32" slim P-CAP FHD MONITOR		
MODEL NAME 모델명		MTR-3240TA		
LCD MODULE	MANUFACTURE		AUO	
	DIAGONAL SCREEN SIZE		Diagonal 31.5 inch (698.4mm x 392.85mm)	
	NUMBER of PIXEL (H x V)		1920 x 1080	
	LUMINANCE of WHITE (Typ.)		400 cd/m <sup>2</sup>	
	CONTRAST RATIO (Typ.)		3,000 : 1	
	DISPLAY COLORS		16.7M Colors (8 bits)	
	COLOR GAMUT (Typ.)		72 %	
	SURFACE TREATMENT		ANTI-GLARE (HAZE 2%), 3H	
	LIFE TIME (Min)		30,000 Hrs	
TOUCH MODULE 터치 모듈	THICKNESS		3 mm	
	TOUCH TYPE		Projected Capacitive Type (P-CAP)	
	DECO PRINTING		BLACK	
	TRANSPARENCY		>85%	
	MULTI TOUCH		10 Points	
	INTERFACE		USB	
	TOUCH METHOD		Finger(Human body), Conductive object	
INPUT 입력	TERMINAL	VIDEO	HDMI x1, DVI x1, VGA(D-Sub 15p) x1	
	단자	TOUCH	USB TYPE-B x1	
	KEYPAD 키패드		5 Buttons	
	POWER SUPPLY 전원		24V Din Jack x1	
OUTPUT 출력	SPEAKER 스피커		2W x2	
INPUT SIGNAL 입력 신호	SUPPORT RESOLUTION		Up to 1920x1080@60Hz	
	FREQUENCY		37.9~135.0KHz(H), 30.0~75.0Hz(V)	
	HDCP		HDMI 1.2 / HDCP 1.1	
POWER CONSUMPTION 소비 전력	Stand-By 대기		≤0.5W	
	Typ. 평균		40 W	
	Max. 최대		55 W	
DIMENSION 크기 (W x H x D)		773.4 x 465.25 x 56.7 mm		
MOUNTING 마운팅 (H x V)		100 x 100 mm, 200 x 200mm (M4)		
WEIGHT 중량		20 Kg		

※ Product design and specification can be changed for quality improvement without prior notice.

※ 디자인 및 제품 규격은 제품 성능 향상을 위해 사전 예고 없이 변경될 수 있습니다.

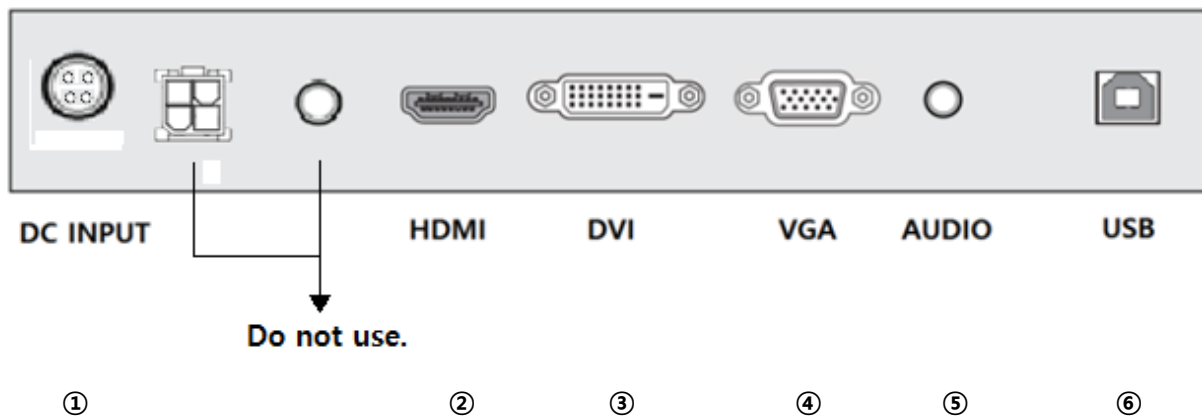
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## 5. Specifications(제품 사양)

### 5.1. Terminal Specifications(단자 사양)

TERMINAL NAME 단자명	TERMINAL SPEC. 단자 사양	Q'TY 수량	SIGNAL SPEC 신호 사양	REMARK 비고
DC INPUT	DIN JACK	1	24V DC Input	
HDMI IN	HDMI TYPE-A FEMALE	1	-	-
DVI IN	DVI 24PIN JACK	1	0.7Vp-p / 75Ω	-
VGA(D-Sub) IN	D-SUB 15PIN FEMALE	1	RGB Analog	-
AUDIO IN	3.5mm STEREO JACK	1	0.5V(rms)(L+R), 220kΩ	-
USB	USB TYPE-B	1	-	For Touch

### 5.2. Terminal Description(단자 설명)



- ① DC INPUT : Connects with the supplied 24V DC Adaptor.
- ② HDMI : To input digital HDMI signals. – Up to 1920x1080@60Hz
- ③ DVI : To input digital RGB signals from a PC or HDTV device having a digital RGB output.
- ④ VGA : To input analog RGB signals from a PC or RGB equipment.
- ⑤ AUDIO : Audio in.
- ⑥ USB : For touch function. Connect to PC's USB port.

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### 5.3. Signal Resolutions(지원 해상도)

#### 1) D-SUB/DVI

MODE	Resolution	Supported Panel	Pixel Clock ( Mhz)	REMARK
VGA	720x400@70Hz		28.3	IBM
	640x480@60Hz		25.1	VESA Std.
	640x480@72Hz		31.5	VESA Std.
	640x480@75Hz		31.5	VESA Std.
SVGA	800x600@56Hz		36.0	VESA Std.
	800x600@60Hz		40.0	VESA Std.
	800x600@72Hz		50.0	VESA Std.
	800x600@75Hz		49.5	VESA Std.
	832x624@75Hz		57.2	Mac
XGA	1024x768@60Hz		65.0	VESA Std.
	1024x768@70Hz		75.0	VESA Std.
	1024x768@75Hz	15"(4:3)Max	78.75	VESA Std.
SXGA	1280x960@60Hz		108.0	VESA Std.
	1280x1024@60Hz		108.0	VESA Std.
	1280x1024@75Hz	17"/19" (5:4) Max	135.0	VESA Std.
WXGA	1360x768@60Hz	HD	86.5	VESA Std.
SXGA+	1440x900@60Hz	W19" (16:9) Max	88.75	CVT Red.Blanking
	1400x1050@60Hz		101.0	CVT Red.Blanking
UXGA	1600x1200@60Hz		162.0	VESA Std.
WSXGA+	1680x1050@60Hz	22"(16:10) Max	119.0	CVT Red.Blanking
FHD	1920x1080@60Hz	FHD(16:9)Max	148.5	

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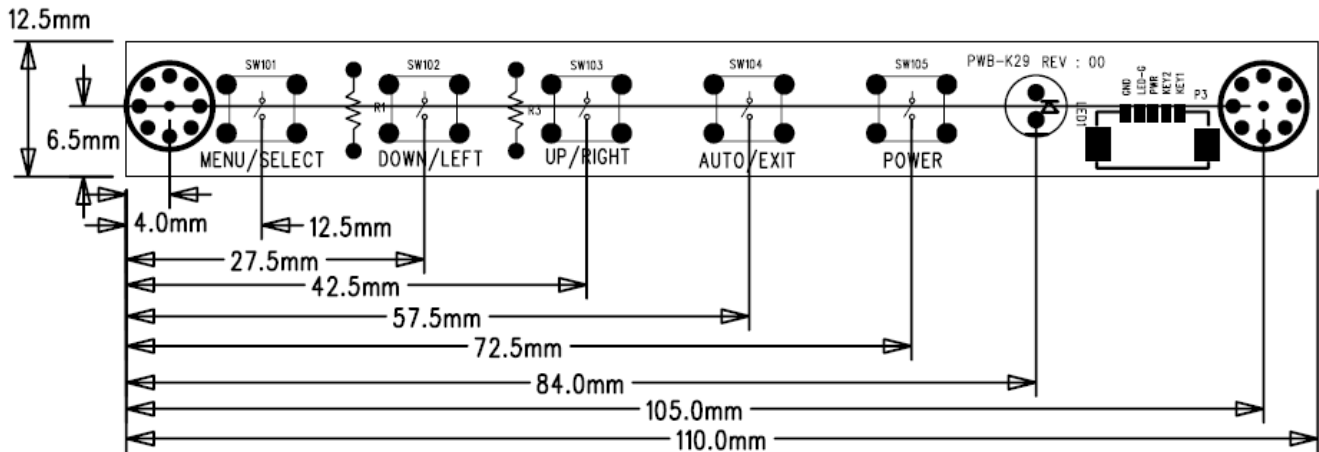
2) HDMI

MODE	Resolution	H Freq. ( KHz )	V Freq. ( Hz )	Pixel Freq. ( MHz )	Comments
480P	720x480	31.469	59.94	25.175	
576P	720x576	31.250	50.0	26.566	
720P/60	1280x720	44.964	59.94	74.176	
720P/50	1280x720	37.500	50.0	60.466	
1080I/60	1920x1080	33.750	60.0	74.25	Interlace
1080I/50	1920x1080	28.125	50.0	70.723	Interlace
1080I/50	1920x1080	31.250	50.0	72.000	Interlace
1080P/60	1920x1080	67.500	60.000	148.500	
1080P/60	1920x1080	67.433	59.940	148.352	
1080P/50	1920x1080	56.250	50.000	148.500	



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#### 5.4. Key Pad (제어 버튼)



Key Name	Operation
MENU/SELECT	<ul style="list-style-type: none"> <li>▶ Activates main OSD menu.</li> <li>▶ Executes functions in main OSD menu.</li> </ul>
DOWN/LEFT	<ul style="list-style-type: none"> <li>▶ Decreases values of user menu in main OSD menu.</li> <li>▶ Move the cursor to next item in main OSD menu.</li> </ul>
UP/RIGHT	<ul style="list-style-type: none"> <li>▶ Increases values of user menu in main OSD menu.</li> <li>▶ Move the cursor to previous item in main OSD menu.</li> </ul>
AUTO/EXIT	<ul style="list-style-type: none"> <li>▶ Turn off the OSD menu.</li> <li>▶ Adjust H/V Position, Clock and Phase automatically. (VGA Source)</li> </ul>
POWER	<ul style="list-style-type: none"> <li>▶ Power On/Off</li> </ul>
LED	<ul style="list-style-type: none"> <li>▶ Indicates the state of the monitor</li> </ul>

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## 5.5. LED Operation (LED 동작)

Status	Color	Operation
Power Off	-	Turn off
Normal	Green	On
No signal	Green	On

## 6. Accessory(부속품)

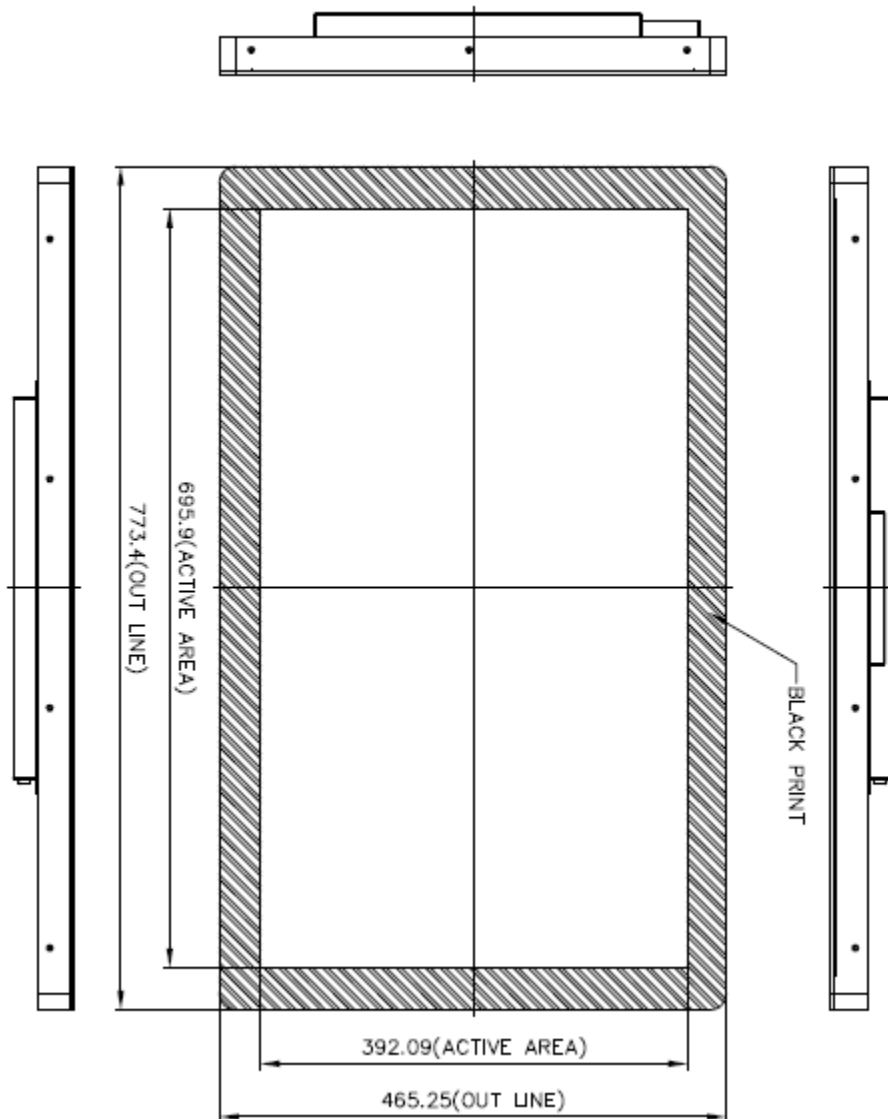
### 6.1. Accessory(부속품)

Item	Q'ty
POWER CORD (1.8m)	1
DC ADAPTOR (24V/5A)	1
HDMI CABLE (1.5m)	1
USB CABLE (1.8m)	1

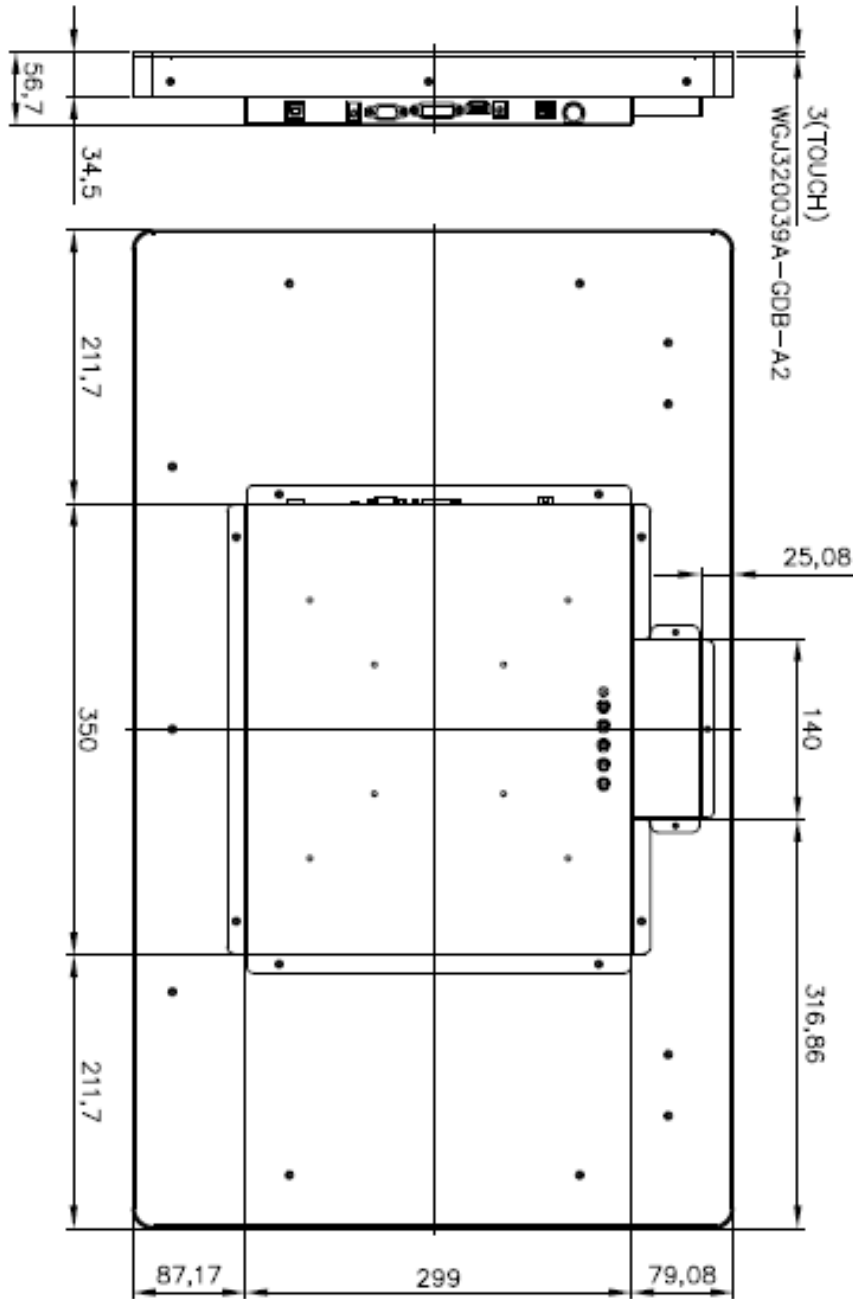
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## 7. Product Drawing & Dimension(제품 외관 및 치수)

### 7.1. MTR-3240TA



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## 8. Packing(포장)

### 8.1. Product Packing(제품 포장)

Number of Set in 1 package : 1 Set

Model Name		MTR-3240TA	
Dimension (L x W x H mm)		835 x 150 x 590 mm	
Weight (Kg)		20Kg	
No.	Item	Spec	Q'ty
1	PAD TOP	815 x 138 x 20T	1 Pcs
2	PAD BOTTOM	815 x 138 x 30T	1 Pcs
3	PAD SLIDE	775 x 467 x 20T	4 Pcs
4	PAD F/B	467 x 138 x 20T	2 Pcs
5	ACCESSORY	-	-
6	Product (MTR-3240TA)	-	1 Set

### 8.2. Box Packing Assembly Drawing(제품 포장 외관)

