

COMPREHENSIVE  
SOLUTION  
FOR YOUR NEEDS  
IN CRITICAL AND  
INTERMEDIATE  
CARE

# M50s

PATIENT MONITOR FOR  
SONOGRAPHER



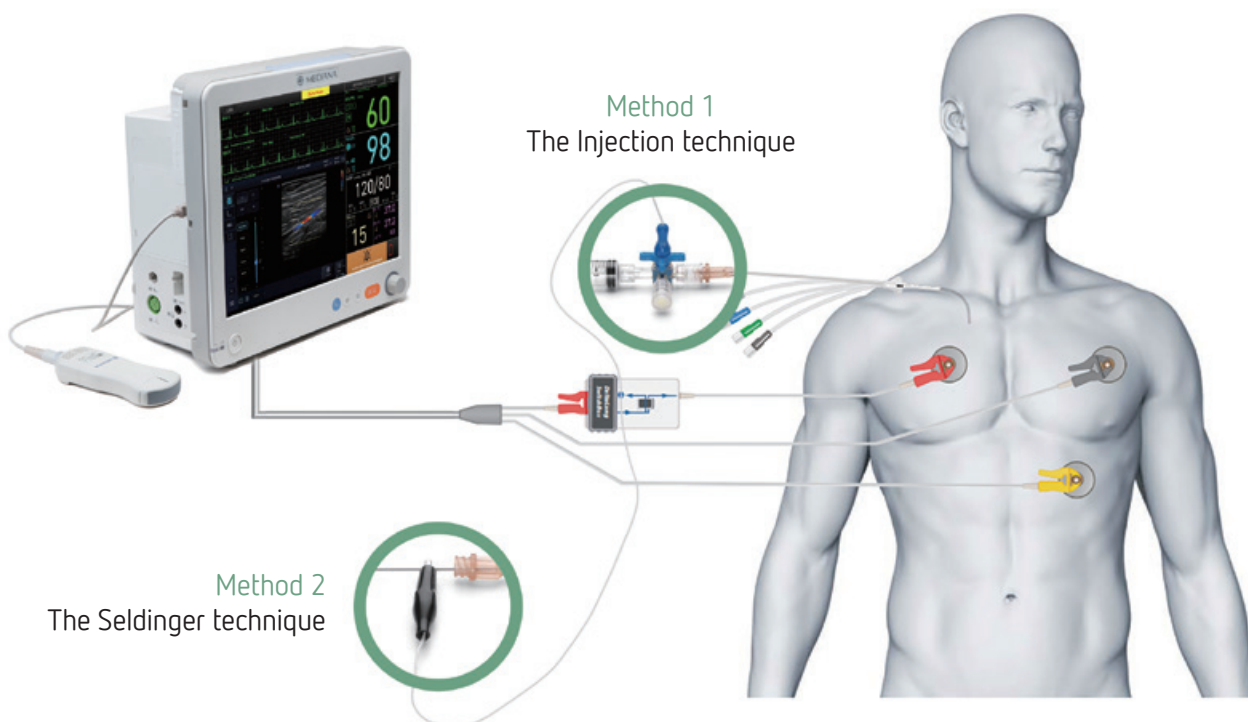
# M50s

## DeltaLong SwitchBox



Using PAJUNK's DeltaLong Switch BOX allows user to easily switch between External ECG and Intra-Arterial ECG

### 2 TECHNOLOGIES OF DELTALONG SWITCHBOX



Method 1  
The Injection technique

Method 2  
The Seldinger technique

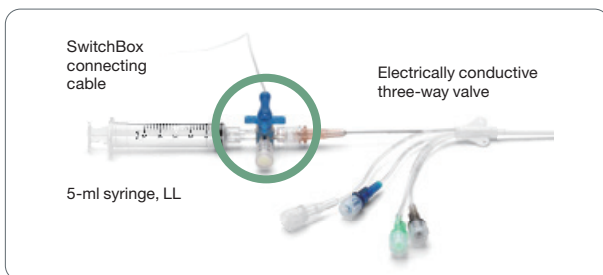


## SWITCHBOX METHOD

# 1

### THE INJECTION TECHNIQUE

The Catheter is first connected with a three-way valve, which is in turn connected to the DeltaLong SwitchBox via a connecting cable. The Syringe is then filled with an electrically conductive solution and connected to the DeltaLong three way valve. When the valve is opened, the catheter can be completely filled with the electrically conductive solution. This creates a fluid column by which and Intra-Arterial ECG can be derived.



## SWITCHBOX METHOD

# 2

### THE SELDINGER TECHNIQUE

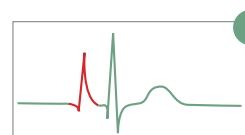
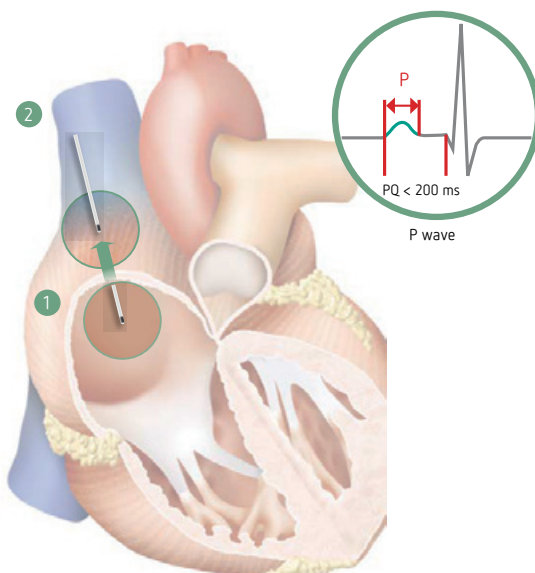
The central venous catheter is placed using the Seldinger technique and the DeltaLong clamp is connected to the Seldinger wire in position.

Once positioning has been successfully completed, the Seldinger wire is withdrawn as far as the tip of the catheter, complying with the instructions for use of the central venous catheter at all times.

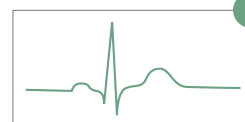
The direct connection to the SwitchBox then allow an Intra-Artial ECG to be derived, enabling the practitioner to determine the precise position to the catheter tip.



## DELTALONG ECG POSITION CONTROL SYSTEM



1 The catheter tip is in the right atrium. This can be seen by the elevated P wave.

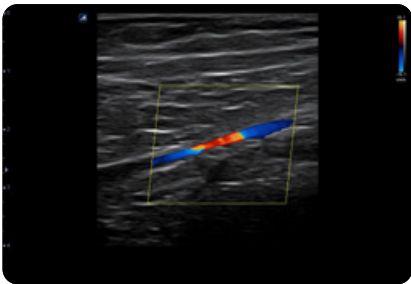


2 The catheter tip has been withdrawn from the right atrium, causing the P wave to return to normal

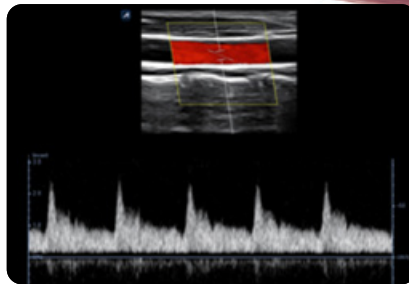
### ADVANTAGES

- The ECG potentials derived from the catheter tip are evident. Incorrect positioning is detected and corrected during the positioning process.
- There is no longer need to perform an X-ray to check the position, which saves time and money and avoids exposing the patient to radiation.

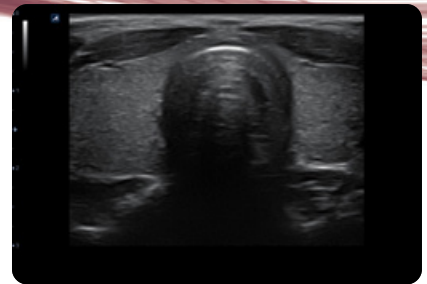
## ULTRASOUND CLINICAL IMAGE



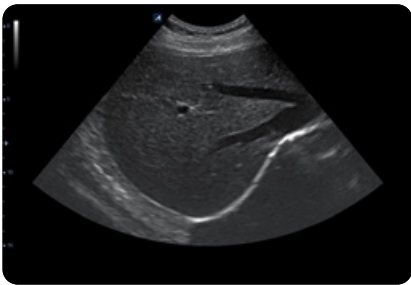
Peripheral artery in CF



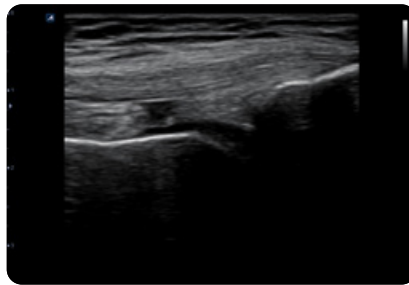
Carotid artery in PW



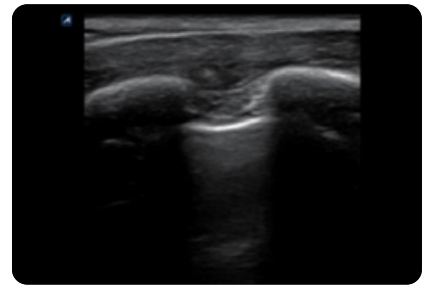
Thyroid in 2D



Abdomen in 2D

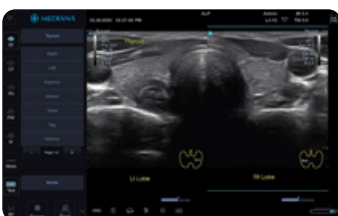


Knee in 2D



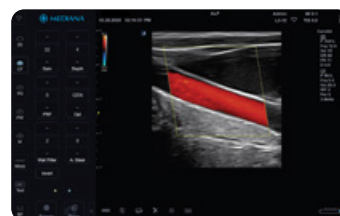
Lung in 2D

## ULTRASOUND MODE



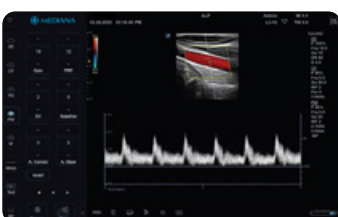
### Basic Mode

Observing blood  
Vessels and organs



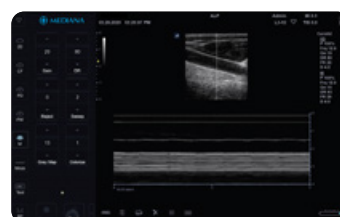
### CF(Color Flow) Mode

Viewing blood flow over  
broad area



### PWD(Pulsed Wave Doppler) Mode

Checking blood vessel  
pumping and provide  
the information of blood  
flow via screen and  
sound indicator



### M(Motion) Mode

Observing contraction  
and Relaxation of Heart

# M50s

## PATIENT MONITOR FOR SONOGRAPHER

### CONFIGURATION



### FEATURES

- High resolution of 15" LCD touch screen
- Multi-Parameter : ECG, SpO2, NIBP, RR, Temp
- Glasgow Interpretative 12-lead monitoring
- Oxy CRG (Combination of Btb HR, SpO2 and Respiration, mainly used in neonatal monitoring)
- Dual-mode function (Sonography and Patient Monitoring)
- Provides 2D array screen
- PAJUNK's DeltaLong Switch BOX



## M50s ULTRASOUND PROBE



Convex probe

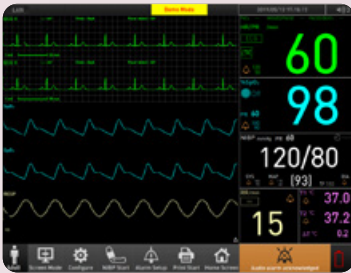
Dimension: 25.5(H)X62.5(W)157(D)mm  
Weight: 165g  
Measuring Depth: 0-20cm



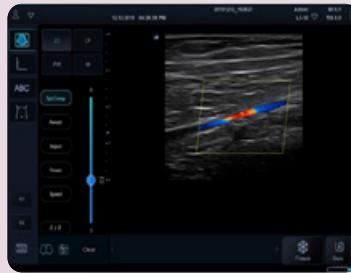
Linear probe

Dimension: 25.5(H)X62.5(W)150(D)mm  
Weight: 160g  
Measuring Depth: 0-5cm

## M50s DISPLAYS



Basic Display



Ultrasound Display



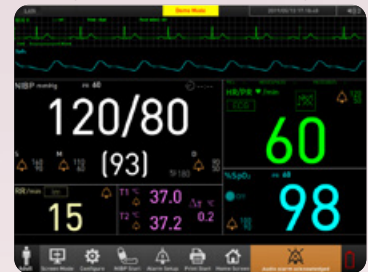
Dual Monitoring Display  
(Patient Monitor / Ultrasound)



12 Lead ECG Display



OxyCRG Display



Big Number Display



Tabular Trend



Graphical Trend



Event Review

### Mediana Seoul office

53, Donggwang-ro, Seocho-gu,  
Seoul, Republic of Korea  
T. +82-2-542-3375 F. +82-2-542-7447

[www.mediana.co.kr](http://www.mediana.co.kr)

### Mediana HQ / Factory / R&D

132, Donghwagongdan-ro, Munmak-eup,  
Wonju-si, Gangwon-do, Republic of Korea  
T. +82-33-742-5400 F. +82-33-742-5483

