

Please refer to Camino monitor and each individual catheter's quick start guide for technique details.

### Parenchymal Bolt



REF: 110-4B  
 OBLIQUAMENTE INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 OBLIQUAMENTE INSERIRE L'INSTRUMENTO  
 NEL FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 OBLIQUAMENTE INSERIRE L'INSTRUMENTO  
 NEL FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.

1104B Catheter and Label



REF: 110-4BT  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.

110-4BT Catheter and Label



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### Ventricular Bolt\*



MODEL: 110-4HM  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.

1104HM Catheter and Label



REF: 110-4HMT  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.

110-4HMT Catheter and Label



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### Ventricular Tunneled\*



VTUN



FLEXEXT

### Subdural



REF: 110-4G  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.  
 INSERIRE L'INSTRUMENTO NEL  
 FORO DEL CANNOTTO DI PRESSIONE  
 PER IL MONITORING ICP.

1104G Catheter and Label



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\*When using Ventricular Bolt (1104HM or 1104HMT) or Ventricular Tunneled (VTUN) catheters, an external drainage system is also required (i.e. Natus<sup>®</sup> EDS 3<sup>™</sup>, or other system)

**Note:** To connect to a bedside monitor, you will need the PMIOMPM1 cable (included with each Camino monitor) in addition to ICP-XX or ICT-XX cables that are compatible with your facility's bedside monitor.

# Helpful Hints & Troubleshooting

## Helpful Hints

### Fiber Optic Catheters

- The fiber optic catheters (1104B, 1104BT, 1104HM, 1104HMT, 1104G and 1104L) are MR unsafe
- Extreme bending and / or kinks can impair the performance of the Fiber Optic Pressure Transducer
- If monitoring is continued for more than 5 days, placement of a new system under sterile conditions is recommended
- When removing the bolted monitoring setup from the patient, loosen the compression cap, remove the catheter, then remove the bolt; DO NOT remove the catheter and the bolt at the same time

### Strain Gauge Catheter

- The Camino Flex (VTUN) Catheter is MR conditional at 1.5T and 3.0T
- DO NOT use the Camino Flex Ventricular Catheter for more than 5 days; if monitoring is continued for more than 5 days, placement of a new catheter through a new twist drill hole is recommended

## Troubleshooting

### The mean ICP value on the touch screen displays two dashes (- -)

- Make sure the cable is properly connected to the Camino ICP Monitor
- If catheter is damaged, replace the catheter

### Temperature value displays two dashes (- -)

- Ensure the catheter is ICP / temperature catheter (e.g. 1104BT, 1104HMT)
- If faulty or poor connection cannot be resolved, replace catheter and / or cable

### Camino ICP Monitor does not power On or Off when power button is pressed

- Disconnect AC adapter cord from Camino ICP Monitor and remove battery
- Re-insert battery
- Reconnect AC adapter cord to Camino ICP Monitor
- Press the power button

### Unable to transfer trend data to USB drive / flash drive

- Insert a different brand of USB drive
- Insert a USB drive with a FAT16 or FAT32 formatted system



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*The Camino ICP Monitor is indicated for use by qualified neurosurgeons or neurointensivists for measurement of intracranial pressure and temperature. The EDS 3 CSF External Drainage System is indicated for draining cerebrospinal fluid (CSF) and other fluids of similar physical characteristics as a means of reducing intracranial pressure and CSF volume when the insertion of a permanent, internal shunt is not indicated.*