Quick, Confident, Controlled

**True Lumen Re-entry***

- 6F sheath compatibility.
- Radiopaque curved-needle housing to enable targeting. Adjustable needle depth (3mm, 5mm and 7mm).
- Triple-braided shaft for enhanced trackability, torque control and needle movement.
- Radiopaque IVUS transducer offers enhanced imaging for diagnosis and targeting.

IVUS Guidance May Increase Procedural Success Rates*

- Intuitive, easy-to-use handle allows for single-handed deployment of needle
- Thumb-activated safety lock for ease of use

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Intravascular Ultrasound Guided Re-Entry Catheter

True Lumen Return

1. Insert the Pioneer™ Plus catheter over the 0.014" subintimal guide wire.

2. Deploy the nitinol needle to create a pathway to the true lumen.

3. Use IVUS to precisely target reentry. IVUS is used in order to localize the true lumen by the presence of flow. The Pioneer Plus catheter should be rotated so the true lumen (identified by the ChromaFlo® feature) is at the 12 o’clock position.

4. Advance a non-hydrophilic 0.014" guide wire through the needle into the true lumen. This guide wire will be used to facilitate the placement of subsequent catheters after the Pioneer™ Plus catheter is removed.

5. Retract the needle and remove the Pioneer™ Plus catheter.

6. Complete the procedure.
Product Features

Indications
The Pioneer Plus catheter is intended to facilitate placement and positioning of catheters within the peripheral vasculature. The Pioneer Plus catheter also provides an intraluminal cross-sectional ultrasound image of the area of interest to facilitate placement of guide wires beyond stenotic lesions (e.g., sub-total, total or chronic total occlusions) prior to additional intervention (i.e., PTA, stent, etc.).

For further information, please call Volcano at 800-228-4728 and/or consult Volcano’s website at www.volcano.com.

Warning
The Pioneer Plus catheter is not indicated for use in the coronary or cerebral vasculature.

Product Name

Pioneer™ Plus Catheter   PPLUS120

Technical Information

Sheath compatibility   6 F (0.087", 2.2 mm)
Tracking guide wire   0.014"
Needle guide wire   0.014"
Catheter length   120 cm

Adverse Events

Possible adverse events associated with use of the Pioneer Plus catheter include, but are not limited, to the following:

- Hemorrhage or hematoma
- Injury to the vessel wall (e.g., perforation, dissection)
- Infection
- Peripheral embolization
- Thrombosis of the vessel
- Vessel spasm

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.