

VIDEO

UP FROM BLACK TO
CU OF company SIGN with MEDIUM SPEED
ZOOM OUT to show a portion of the exterior of
the facility

DISSOLVE TO MEDIUM CU OF M-IV UNIT
(side view) (make sure M-IV logo on side of
tubehead is readable).

SPECIAL EFFECT: OUTLINE of each
component, then WIPE NAME from the
background (leave outlines), and replace with
room layout grid. Move components around to
common configurations

OR
show photos of different room configurations
with actual configurations.

DISSOLVE to MEDIUM SHOT (MS): side
view of systemV. Rotate unit to
front view. Have doors opening(to show
components).

SPECIAL EFFECT: HIGHLIGHTING of the
footswitches.

SPECIAL EFFECT: SLOWLY ROTATE the
unit about 45 degrees and HIGHLIGHT the
pivot tube. Tech entering room

MUSIC UP

ANNOUNCER Company, the industry leader
in advanced technology for mammographic
equipment, presents this instructional
videotape on the NAME Mammography
System. Included in this presentation is an
overview of the NAME, an introduction to its
components and features, usage guidelines,
and troubleshooting suggestions.
MUSIC FADE OUT

We'll begin by looking at the two major
components of the system, namely the Gantry
and the Operator Console. The physical
separation of these two components not only
allows flexibility and variation in room
configuration, but it also provides the best
options for patient comfort, positioning, and
eye contact.

The NAME Gantry houses the system's power
generator, the mechanical assemblies for
positioning the C-arm, and other electrical
components that produce the x-rays needed
for mammography. The side panel doors of
the Gantry and the lower rear panel door
provide quick, easy service access to these
housed components.

At the base of the Gantry, on either side, are
dual-action footswitches that control motorized
operation of the Compression Carriage and
the C-arm.

At the center of the Gantry is the system's C-
arm. It mounts to the Gantry via a pivot
mechanism that allows the C-arm to rotate.
The ergonomic design of this C-arm
accommodates patients in sitting, standing, or
recumbent positions

VIDEO

HIGHLIGHT: patient handles, followed by rear panel pushbuttons. Tech pointing.

SPECIAL EFFECT: HIGH LIGHT each of the C-arm components as it is mentioned.

Zoom in to CU of x-ray tubehead QS: housing open to show components.

ECU of anode
SS: graphic-tube tilt, beam projection from both focal spots.

Wipe SS.

(Slow Zoom out) to CU: of tubehead. Outline beam limiting assembly.

ECU: each component - where possible show interchang/movement of component.

Dolly out - maintain focus on tubehead assembly then change focus to faceshield.

Slow zoom out to CU: entire Compression Device
Tech pointing to Compression Carriage, then working handwheels.

SS: show components

AUDIO

Handles on either side of the C-arm serve as safe positioning devices for patient hands and arms Pushbutton controls on the C-arm's rear panel allow convenient operator access to C-arm and Compression Device movement.

The C-arm also supports the x-ray tubehead, the Compression Device, and the image receptor support device. Each of these components will be discussed in detail next.

The x-ray tubehead houses the x-ray tube, the beam limiting assembly, a cooling fan, and various microprocessor boards needed for proper x-ray production.

Close examination of the x-ray tube shows the M-IV's two focal spots. The bi-angular arrangement of these areas, along with the 6 degree tilt of the x-ray tube itself, allows the system to accommodate the full range of mammographic applications.

Mounted beneath the x-ray tube is the beam limiting assembly. This two-tier mechanism supports the dual filter changer and the mirror/lamp assembly on its upper tier, and the four-blade automated beam collimator on its lower tier.

At the base of the exterior of the tubehead assembly are slide rails that accept the patient face shield. While this device does not offer protection from x-ray exposure, it does keep the patient's head and face out of the x-ray field.

Below the x-ray tubehead assembly, in the center of the C-arm, is the Compression Device. It consists of a Compression Carriage that is equipped with bilateral hand wheels for manual compression up to a maximum of 65 pounds. Typically manual compression is applied after motorized compression. For the NAME, motorized compression can be set for pre, full or dual modes. The method for mode selection will be shown later.

The Compression Carriage houses vertical movement assemblies, a compression