

## Application Note APNT-0020

### Preempt Timed Event Switching by Telephone (DTMF)

#### Simplified Block Diagram

This Application Note shows how to configure Monroe Electronics Series 3000 equipment for normal timed programming and switching of stereo audio-follow-video, IF or RF to 950MHz with the ability to **override the timer** via DTMF signals generated by any touch-tone telephone or local audio source. As shown in the simplified block diagram, the complete system configured for four switches takes up only 5 rack-units. Capability can be expanded up to 80 channels on a single timer using additional components from Monroe.

#### OPERATION:

- Setup program timer “INT” outputs for MOMENTARY operation.
- Setup decoder relays for LATCHING operation (default).
- Energizing INT SW 1 (switch 1) on the timer will energize Relay 1 on the A/V Relay Panel via the SET input on the decoder.
- Energizing INT SW 2 (switch 2) on the timer will de-energize Relay 1 on the A/V Relay Panel via the RESET input on the decoder.
- Use 3-digit plus \*/# DTMF code from any touch-tone phone (or from local audio source) for absolute control of A/V Relays.

#### NOTES:

- Four channels shown.
- R-149/R-153 – use SW 9 thru SW 16 to increase capability. R-149 may be further expanded using 619 Switch Module(s) and/or R-150A Switch Panel(s).
- R-173 – equipped with 4 decoders – can be expanded up to 12.
- R-165 – each R-165 is 4 channels (A/B switches).
- See individual product data sheets for additional information.

