

LASER APPLICATION NOTE 2140

TELESIS

ProScript[®]

Application:

Decorative marking on automotive buttons. Backlighted, Day/Night Illumination



Mark depth:

Surface to 0.0005 inch (0 to 0.0127 millimeters)

Material:

Painted acrylic plastic

Mark Type:

Alphanumeric, Logo, Schematics

Cycle Time:

Varies for mark type. Typically less than 0.5 seconds

Laser Advantage:

High mark speed and ease of integration of logos and images into process. Precise laser removal of paint allows even illumination for backlighted, edge lighted day/night applications.

Recommended Laser: ProScript Nd:YAG 75 Watt and higher

Process Notes:

The clear acrylic part is first painted white (or a similar light color) then painted black (or similar dark color). The ProScript Nd:YAG is used to remove the dark colored top layer exposing the white paint mark allowing the characters to be illuminated from behind. Paint type, paint thickness and paint color are important considerations for this application. Customer supplied samples must be submitted for evaluation.