Addendum for IQ150 or 200
Slope Calibration Function

Slope calibration is a powerful mode that allows you to calibrate the IQ 150 so that the displayed density will match that of another densitometer. Densitometers from different manufacturers have different optical and electrical characteristics, therefore they do not always display the same density values across their full operating range. When the slope calibration has been selected, the IQ 150 applies a multiplier to every reading to compensate for these differences. This is a single point calibration, therefore the calibrations are guaranteed to match in one density region and for only one ink set.

To change the slope calibration values, press the [SLOPE] key. When this mode is first entered, the values of the slope multipliers will be displayed.
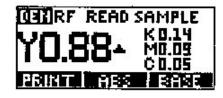
If you wish to change the slope of any channel, read a sample patch of that color. You can return to the main calibration routine by pressing the [EXIT] key.

After you read a patch, its color and density will be displayed. At this time you can change the displayed density value by pressing the [+] or [-] key until the desired value is attained. To the right of the density display is the slope value.

This is the multiplying factor that is used to modify the density value to its new value. Once the desired density value has been attained press the [SAVE] key, the slope value will be stored and will be used on subsequent readings.

After a channel has been sloped with a value other than 1.000, a ▲ will be displayed after its density whenever any reading is performed.

Note: Unit must be calibrated to plaque prior to this slope procedure. Plaque is Tobias part #AO257. Slope is NOT done with the plaque. To proceed with slope setting you must have a known good color control strip, or T-ref, or similar, with full process colors Black, Magenta, Yellow, and Cyan. Slope is done one color at a time.

Two or more IQ densitometer units: Slope each unit one color at a time to the T ref or to a known good control strip with density values written next to each sample. Do not expect the slope multiplier numbers to match—no two units are exactly alike.

To use IQ units with a differing model of densitometer: If you decide that the differing densitometer model should serve as master unit, then take readings with that unit on the T ref, record readings, then slope each IQ unit to match those readings upon reading the same sample.

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